

apriilia

ASSIGNMENT 06 | **FINAL LIGHTING DESIGN PROJECT**

INDES 391 Lighting for Interiors

Roxy Tobias



CLIENT BRIEF

Aprilia is an Italian owned motorcycle and scooter manufacturer. It has a long proud history starting in 1945 with scooters, and ultimately becoming a strong force in motorsport where it has made its name as a championship-winning racing program. To showcase this dynamic history of changing with the times, the client has selected Seattle - a city also known for its innovations - as its flagship store. They request the store to reflect a balance of their lineage, and a tribute to their commitment to quality and innovation.

LIGHTING DESIGN CONCEPT



LIGHT QUALITY

Reflects Aprilia's history of being on the forefront of cutting-edge design. It will have low level ambient lighting throughout with crests of high intensity across the space to imbue the sense of excitement. By using multiple sources of lighting this will in turn invite guests inside and ask that they stay and enjoy the space as well as allowing staff to easily perform daily tasks.

WAYFINDING

Will be used throughout the space to inform and guide guests to areas of importance, with high contrast direct lighting for merchandise displays and pendant lights as effective task lighting where service takes place, allowing for a user-friendly shopping experience which will be supplemented by the overall ambient light.

ACCENT/FOCAL POINTS

Key architectural focal points will make a statement as well as show off merchandise with the use of accent lighting. This will add depth and contrast to the unique linear quality of the space as well as highlight merchandise displays. Examples are inner illuminated bike stands and strategically placed back lighting for wall display shelving. Recessed and concealed adjustable illumination with point sourcing to provide directional control for vertical elements.

COLOR CONSIDERATIONS

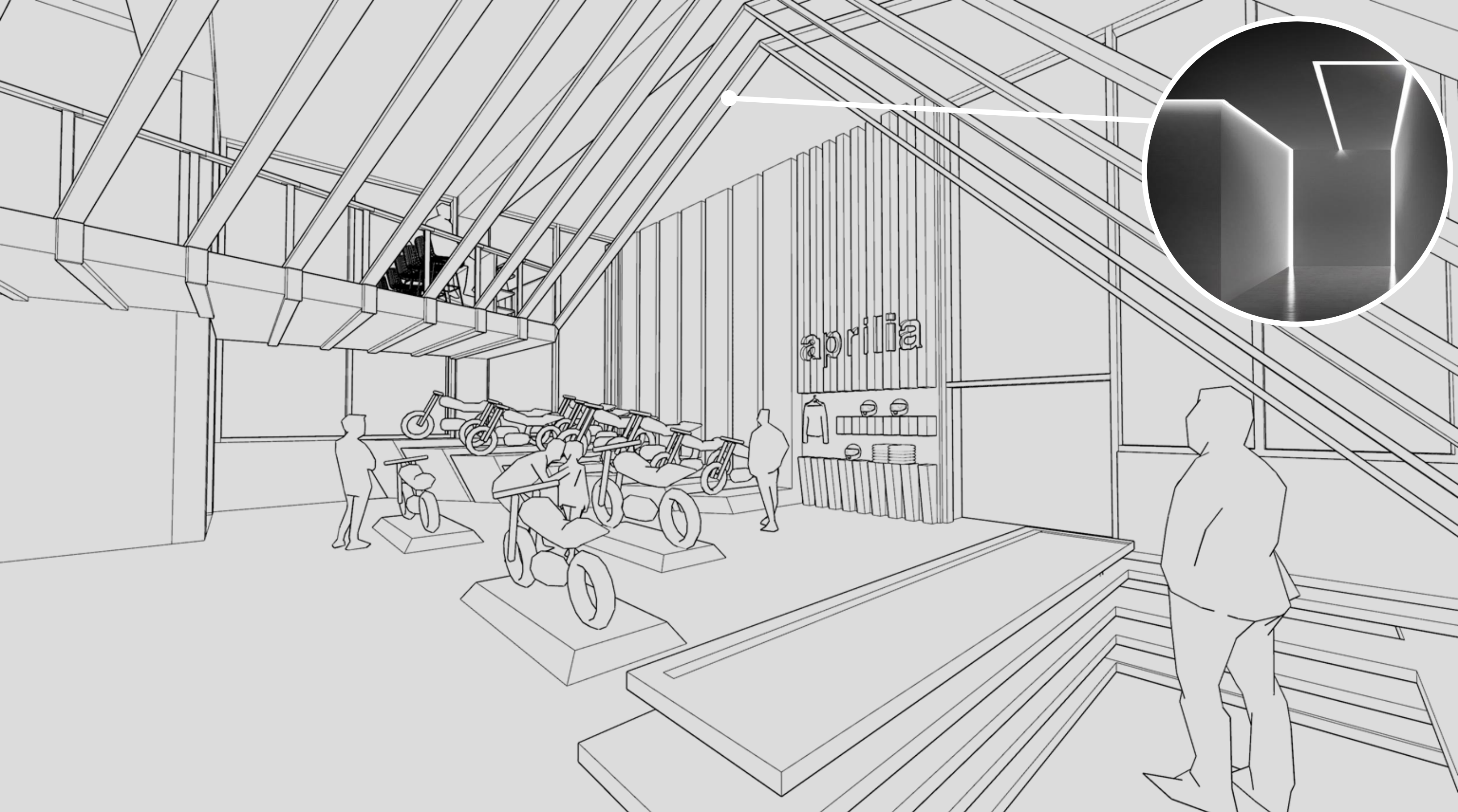
The overall color temperature will be cool, creating the feel of a spacious and dynamic modern space. Specific areas will have a neutral white color temperature for the bar, sales consultation area, and service desks.

LOOK & FEEL



IES ILLUMINANCE RECOMMENDATIONS

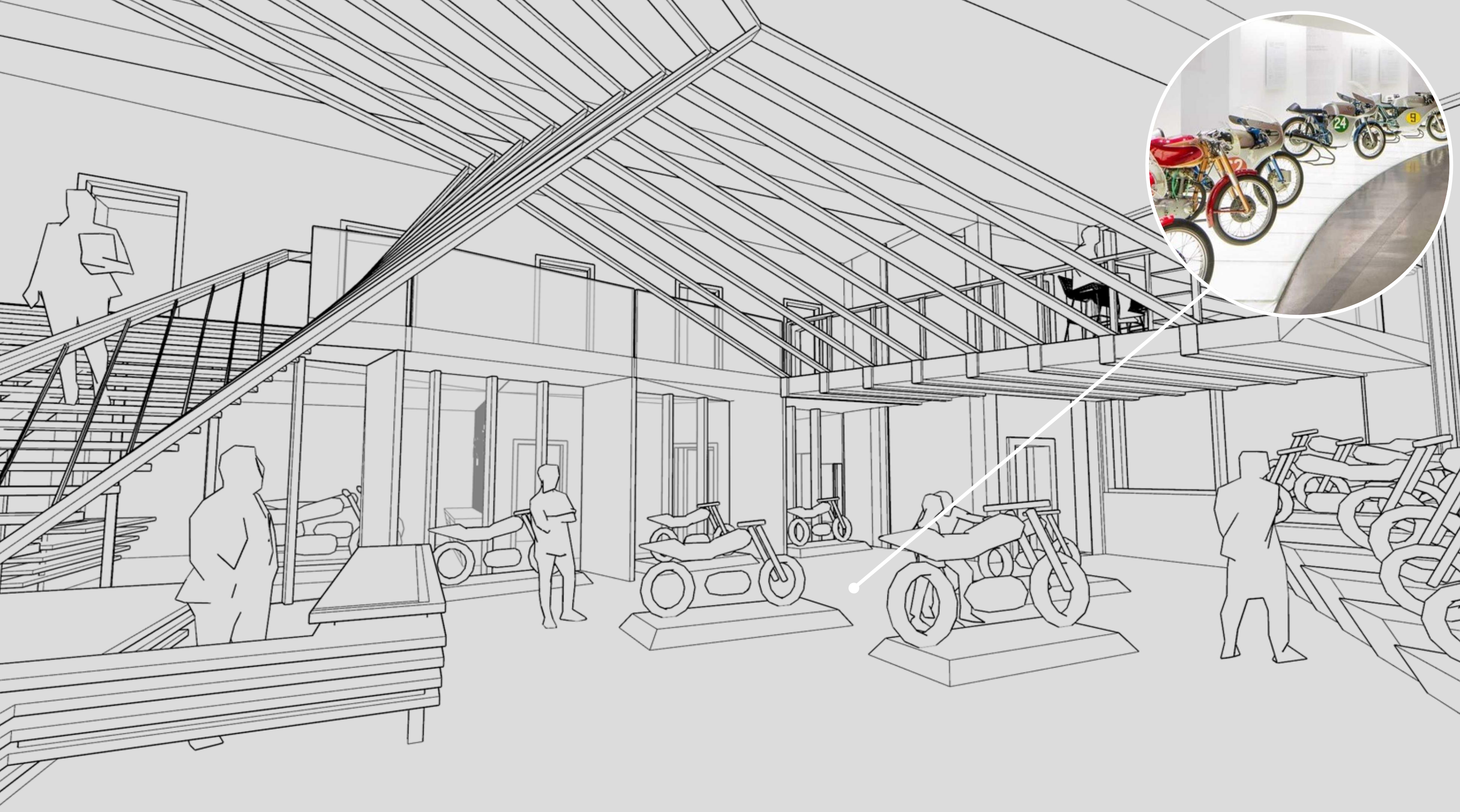
AREA	TASK	LIGHTING APPROACH	HORIZONTAL ILLUMINANCE TARGETS (FC)	VERTICAL ILLUMINANCE TARGETS (FC)	ACCENT RATIO (HIGH: LOW)
RETAIL	CIRCULATION	LOW DIFFUSE LIGHTING	10 FC	10 FC	5:1
	GENERAL RETAIL	MODERATE DIRECT AND DIFFUSE LIGHTING	30 FC	10FC	5:1
	INTEGRATED ARCHITECTURAL ELEMENTS	HIGH DIRECT LIGHTING	50 FC		5:1
	BIKE DISPLAYS	HIGH DIRECT LIGHTING	50 FC		5:1
COFFEE BAR	SEATING	LOW DIFFUSE LIGHTING	5 FC		3:1
	BAR/ WORK SURFACES	LOW DIRECT AND DIFFUSE LIGHTING	10 FC	30 FC	3:1
WORKSPACE	CIRCULATION	LOW DIRECT AND DIFFUSE LIGHTING	10 FC	10 FC	3:1
	SALES TRANSACTIONS	MODERATE DIRECT AND DIFFUSE LIGHTING	30 FC	30 FC	3:1
FITTING ROOMS	DRESSING AREA	MODERATE DIRECT AND DIFFUSE LIGHTING	30 FC		3:1
RESTROOMS	CIRCULATION	MODERATE DIFFUSE LIGHTING	30 FC	20 FC	3:1
	TOILET STALLS	LOW DIRECT AND DIFFUSE LIGHTING	10 FC		3:1
	VANITIES	MODERATE DIRECT AND DIFFUSE LIGHTING	30 FC	40 FC	3:1
BIKE SERVICE AREAS	SERVICE SALES/ GENERAL	MODERATELY HIGH DIRECT AND DIFFUSE LIGHTING	50 FC	30 FC	3:1
	SERVICE - TASK AT BENCH	HIGH DIRECT LIGHTING	100 FC	50 FC	5:1



VIEW 1



RENDER 1



VIEW 2

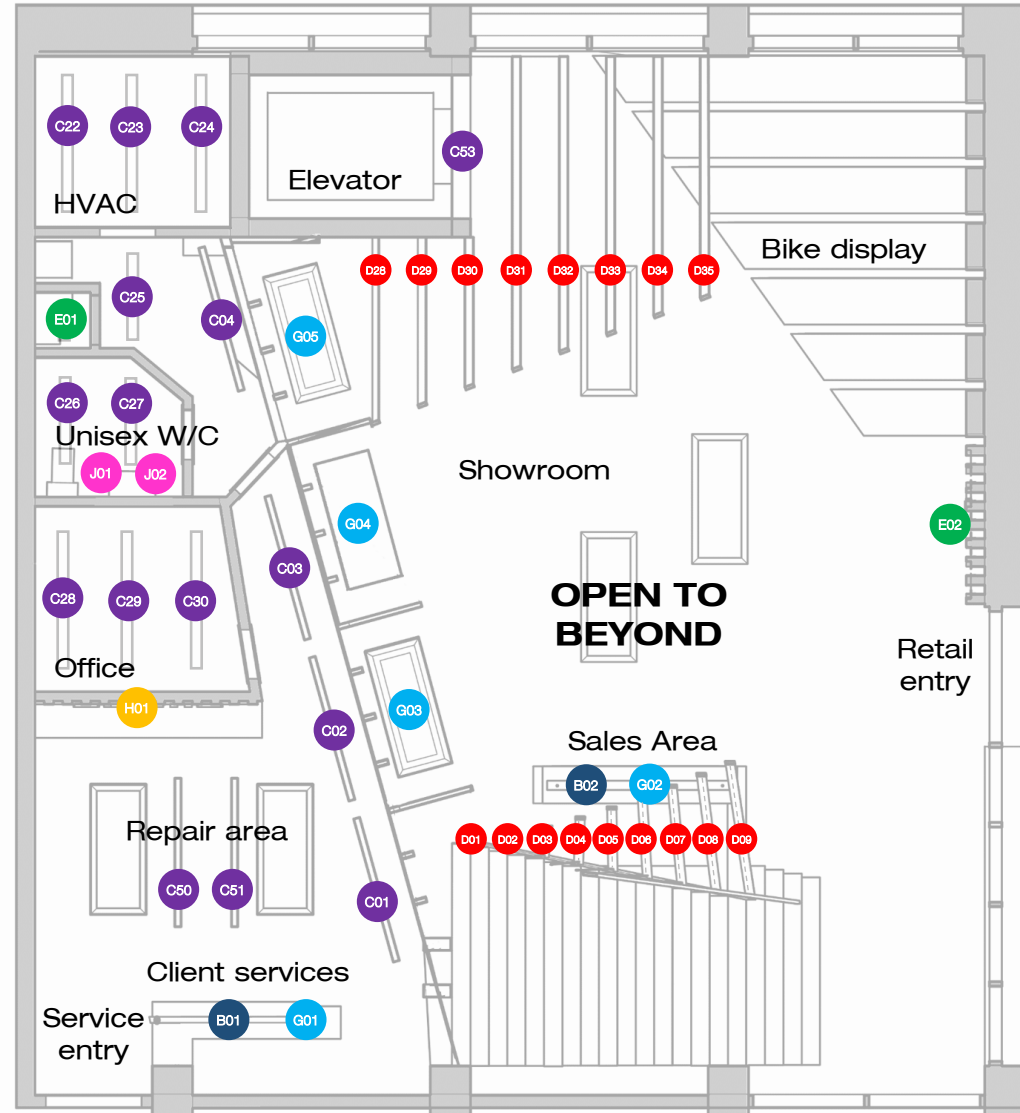


RENDER 2

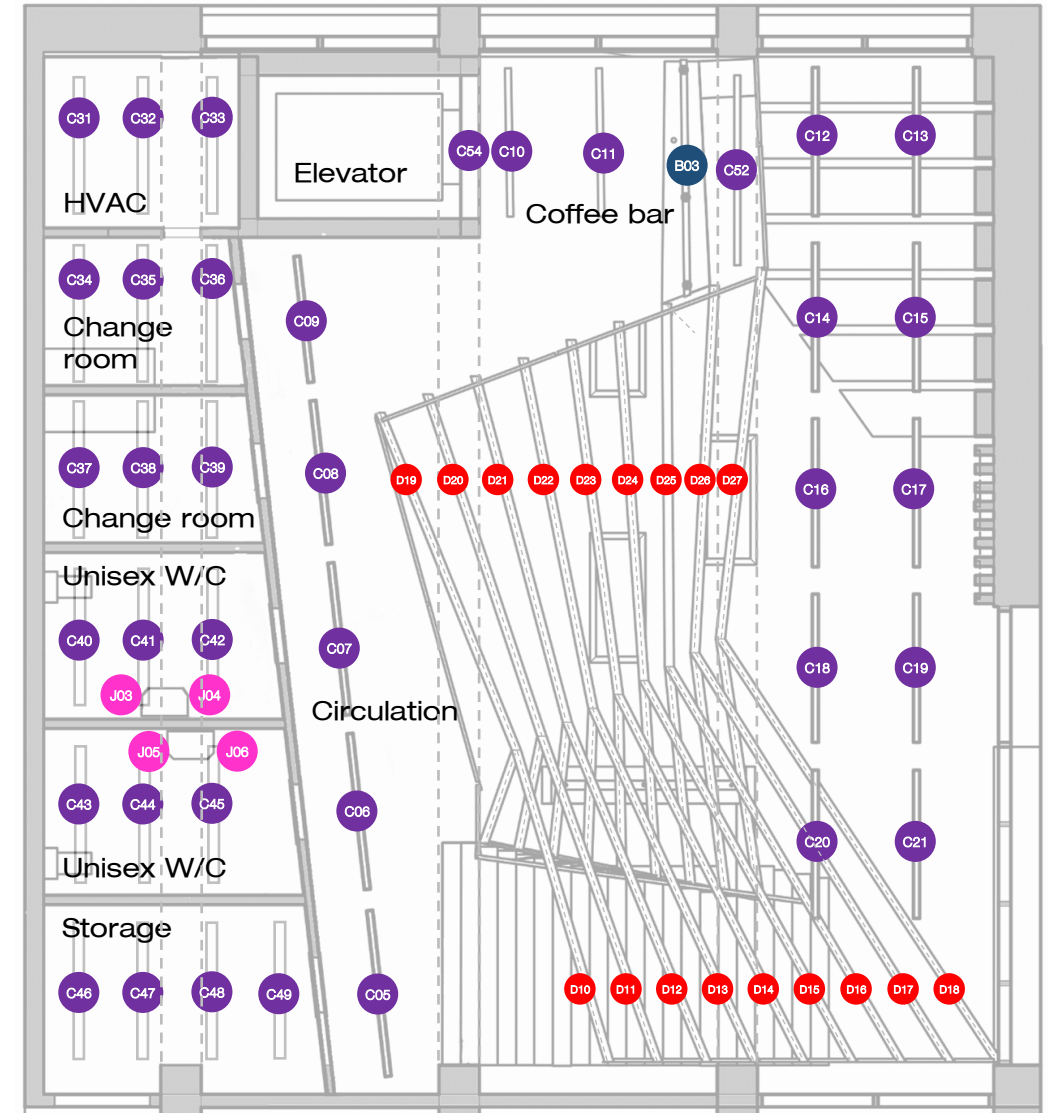
OVERALL LIGHTING PLAN



First floor plan



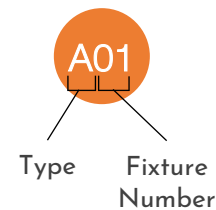
First floor RCP



Second floor RCP

Legend - Light elements types

- A Surface mounted linear panel
- D Pendant mounted linear
- G Recessed undermount linear
- B Pendant mounted linear
- E Recessed square
- H Custom Aprilia logo
- C Recessed linear
- F Recessed surface mounted linear corners
- J Wall mounted pendants



Note: All ceilings to be painted gypsum wallboard unless noted otherwise

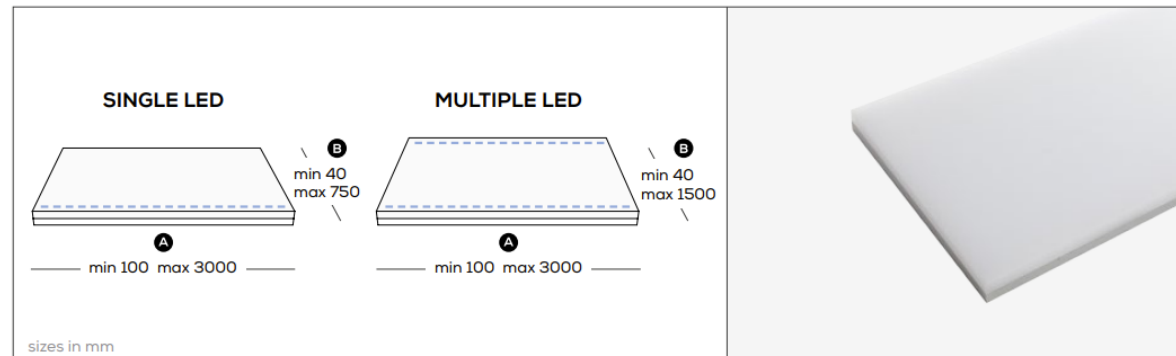
LIGHTING FIXTURES SCHEDULE

TYPE	DESCRIPTION	LOCATION	FINISH	LAMP	MFR.	SERIES #	NOTES AND CUTSHEETS LINKS
A	Surface mounted linear LED panel with nominal 28" wide x 76" length; 9mm aluminum case 10 mm opaline PMMA diffuser; fixing screws; dimming driver and UL listed	Bike displays: • Showroom • Repair area	N/A	4000K LED 90 – R9 min 50 CRI	Folio	Opal 10L	Reference appendix A for fixture length https://www.folio.it/media/prodotti_custom_lighting/en/OPAL_10L_RECTANGLE/allegati/Datasheet-Opal-10L-Eng.pdf
B	Pendant mounted linear LED downlight with nominal; 4" wide x 4.5" deep narrow extruded aluminum housing; reflector steel; extruded acrylic lens; dimming driver and UL listed	Sales area Client services	Black	4000K LED 90+ CRI	Focal Point	Seem 4	Reference appendix B for fixture lengths and mounting height https://www.focalpointlights.com/sites/default/files/FSM4LS__AM.pdf
C	Recessed linear LED downlight with nominal; 2.5" aperture 3.5" wide x 5.5" deep extruded aluminum housing; steel reflector frosted; acrylic lens; dimming driver and UL listed	Throughout project to provide ambient light	N/A	4000K LED 90+ CRI	Focal Point	Seem 2	Reference appendix C for fixture lengths https://www.focalpointlights.com/sites/default/files/FSM2L__AM.pdf
D	Pendant mounted linear LED downlight with nominal 2" aperture; 6" wide x 2" tall; housing extruded architectural grade aluminum ; lens is extruded, twin-layered, high-impact acrylic extra diffuse, with minimal to no-source visibility; connectors are straight; dimming driver and UL listed	Showroom	Textured matte black	3500K LED 90+ CRI	ALW	Go Figure (custom/modified)	Reference appendix D for fixture lengths and RCP for layout. Nine 3 connections hubs will be custom fabricated with designs TBD https://alwusa.com/wp-content/uploads/2017/09/RPD07-SpecSheet-1-8-20.pdf
E	Recessed square LED downlight with nominal; 3.5" square reflector; 4.08" wide by 3.93" length; die-cast aluminum trim-less housing; die-formed aluminum reflector; dimming driver and UL listed	Showroom	Black painted	4000K LED 90+ CRI	Focal Point	ID+ 3.5"X3.5"	https://www.focalpointlights.com/sites/default/files/FLC33D_SO_ST__Z.pdf
F	Recessed surface mounted; extruded aluminum linear corners; LED striplight with nominal; 1.99" wide x 1.38" deep; aluminum housing; frosted lens; non dimming and UL listed	Sales area Repair desk	Black powder coated	3500K CCT	Luminii	Kilo Recessed System	Reference appendix C for fixture lengths and layout https://www.luminii.com/products/kilo-recessed-system/
G	Recessed undermount linear LED downlight; with nominal 1.01" wide x 0.46" deep with bracket; frosted lens; hard surface mounting bracket; dimming driver and UL listed	Sales area Client services	Black powder coated	3500K CCT 97 CRI	Luminii	Kendo RS	Reference appendix D for fixture lengths https://www.luminii.com/specifications/kendo-rs
H	Custom company logo	Repair area	Powder coated matte black	Red LED	TBD	TBD	
J	Wall mounted linear sconce LED with nominal 2.6 wide x 3.9" deep x 24.2" tall; anodized aluminum housing; textured PMMA lens; non-dimmable and UL listed	Bathroom	Black anodize	300K 90 CRI	RBW	Queue sconce	https://rbw.com/products/queue-sconce/24-aa04-30-277_tr_din

CUTSHEETS - TYPE A



OPAL 10L



ELECTRICAL SPECS.

Voltage: 24 V DC
 Driver - Transformer: AC/DC 24 V
 Consumption: 22 W/m of LED strip
 Dimmability: DALI, PWM, DMX

PHYSICAL SPECS.

Thickness: 19 mm
 Weight: 24 kg/m²
 Materials: Acrylic (PMMA) - Aluminum
 Single LED sizes:
 A Min 100 mm - max 3000 mm
 B Min 40 mm - max 750 mm
 Multiple LED sizes:
 A Min 100 mm - max 3000 mm
 B Min 40 mm - max 1500 mm

LED

Luminous flux input: 2000 lm/m of LED strip
 Luminous flux output: 35% less than the lum. input
 LED color temp. (CCT): 3000K, 4000K, 5700K, Tunable White, RGB
 Color rendering index: RA min 90 - R9 min 50
 LED positioning: One, two or four sides

GENERAL SPECS.

Mounting: Ceiling, wall, floor
 Environment of use: Indoor
 Estimated LED lifespan: About 50.000 hours
 Warranty: 2 years

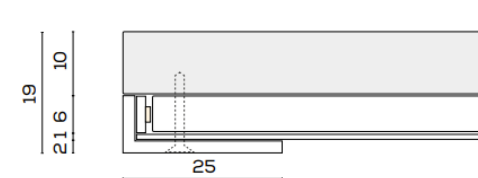
OPTIONAL

2D shaped option: On request
 Drillable: On request

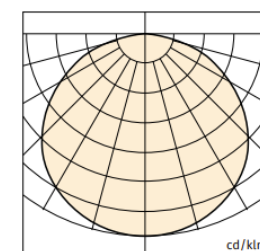
TECHNICAL DESCRIPTION

Custom-made LED panel with internal transparent methacrylate plate, laser-engraved (microprisms), 10 mm opaline PMMA diffuser, fixing screws, and 9 mm aluminum case. Possibility to have a panel with single LED (LED installed on a single side) or multiple LED (LED installed on two or more sides). High-efficiency LED allowing for 70% energy saving compared to fluorescent lamps, dimmable with DALI PWM DMX signal.

SECTION [mm]



POLAR DIAGRAM



OPAL 10L

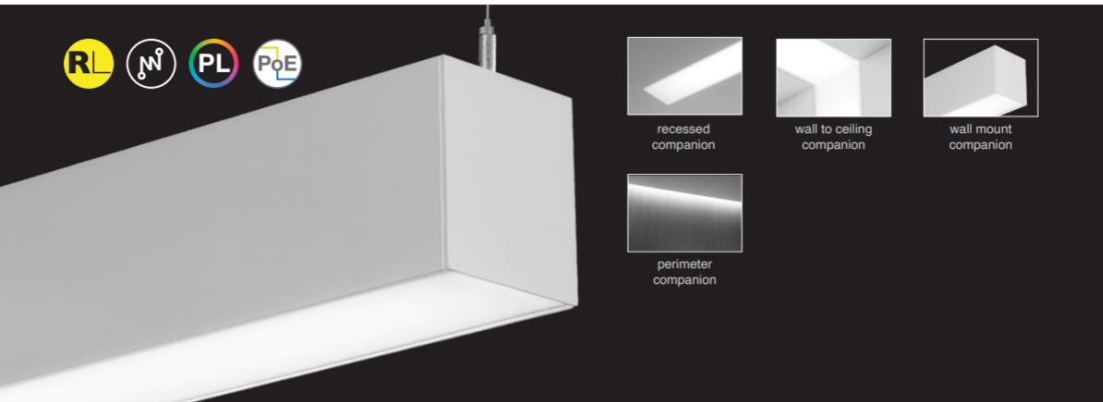


APPLICATIONS

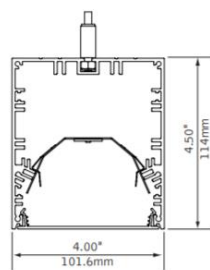


CUTSHEETS - TYPE B

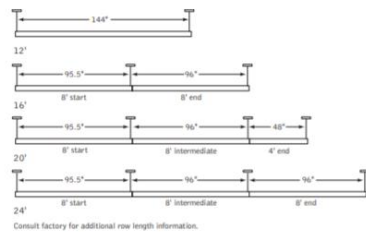
Seem® 4
LED



DIMENSIONAL DATA



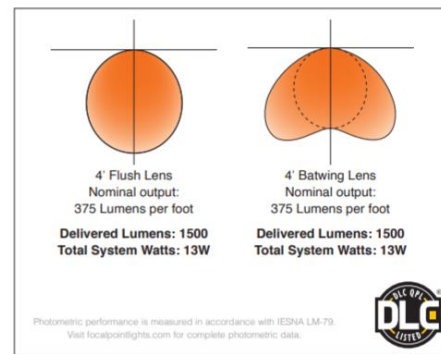
MOUNTING INFORMATION



FEATURES

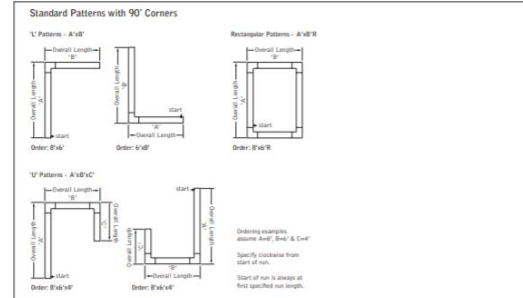
- Narrow extruded aluminum 4' linear direct LED.
- Individual units and continuous runs in 1' increments.
- Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.
- LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.
- Choice of output levels to meet a wide variety of application needs.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- Preferred Light: Lighting for better color rendition and human preference.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

PERFORMANCE



fixture: _____ project: _____

DETAILS



SPECIFICATIONS

LED System
Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM, 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction
9-12' luminaires ship on 13' (157") pallets, forklift extensions of 72" are required to avoid damage. One piece extruded aluminum housing. Die cast aluminum end caps. 2' unit weight: 10 lbs., 3' unit weight: 14 lbs., 4' unit weight: 18 lbs., 5' unit weight: 22 lbs., 12' unit weight: 48 lbs.

Optic
Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 12' continuous.

Electrical
Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Dimming range 100% to 10%. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency
Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 20.18ft. Emergency Circuit with Connected Solutions (NLT1, ENL1, CLM1, CLMZ1, DLM1) shipped standard with leads to connect UL924 compliant device, by others. See EM/EC Guide for default locations and ordering details.

Labels
UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish
Polyester powder coat applied over a multi-stage pre-treatment. Canopy and cord white as standard.

Lumen Maintenance
Reported: L70 > 61,000 hours Calculated: L70 at > 480,000 hours
L90 > 61,000 hours L90 at > 128,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty
LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

Lumens Output	Delivered Lumens	Tested System Watts	LPW	
			BW	FL
275	1100	10	104	100
375	1500	13	113	108
625	2500	22	112	107
875	3500	32	109	105
1000	4000	37	109	104
1125	4500	44	108	104
1250	5000	49	107	102

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.67. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series	Seem 4 LED	FSM4LS
Shielding		
Batwing Lens	BW	
Flush Satin Lens	FL	
Lumen Output		
275 Lumens per foot	275LF	
(Not available with Lutron Drivers.)		
375 Lumens per foot	375LF	
(Not available with LUS & LHT Drivers)		
625 Lumens per foot	625LF	
(3' minimum with LUS & LHT Drivers)		
875 Lumens per foot	875LF	
1000 Lumens per foot	1000LF	
1125 Lumens per foot	1125LF	
1250 Lumens per foot	1250LF	
Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI	30K or 930K	
3500K, 80+ CRI or 90+ CRI	35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
3500K, Preferred Light	P35K	
(Patterns not available.)		
Circuit		1C
Single Circuit		
Voltage		
UNV 120/277 Volt	UNV	
Low Voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible	LVN	
(No driver. Not available with EM or EC. LV Voltage only.)		
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5	
DALI 1% Dimming (DALI max.)	D11	
Acuity nLight - 1% Dimming	NLT1	
(3' minimum length.)		
Enlight Smart Sensor - 1% Dimming	ENL1	
(3' minimum length.)		
Osram Connected Lighting Module for ENCELUM systems - 1% Dimming	CLM1	
(3' minimum length. Compatible with Osram ENCELUM and ENCELUM EDGE systems only)		
Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming	CLMZ1	
(3' minimum length.)		
Not compatible with Osram ENCELUM systems		
Wattstopper DLM - 1% Dimming	DLM1	
(3' minimum length.)		
Mounting		
24" Cable Suspension	C24	
48" Cable Suspension	C48	
96" Cable Suspension	C96	
(Specify canopy color: White (WH), Black (BK) or Titanium Silver (TS). Example: C24WH.)		
(Specify one of the following in place of "C" - J - for 2" canopies at non-feed locations. CS - for sloped ceiling applications.)		
Surface Mount	SM	
(Not available with CLM1, CLMZ1, DLM1 or NLT1)		
Factory Options		
Black Cord	BKCD	
Emergency Circuit	EC	
(4' minimum, 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1.)		
Emergency Battery Pack	EM	
(4' minimum, 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1. See EM/EC Guide for default locations and ordering details.)		
Finish		
Black	BK	
Titanium Silver	TS	
Matte White Housing	WH	
Luminaire/Row Length		
Specify in 1' increments.		
(Lengths are nominal, up to 12' individuals available. See Run Chart (page 4) for ordering codes. Smaller increments available, consult factory for details.)		
Pattern Options		
(3' minimum length.)		
Specify luminaire/row length in 1' increments		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern	A' x B' R	
(Consult factory for other pattern options)		

Options in orange qualify for the Quickship program. Run lengths in 1' increments. 1000' total. Refer to Quickship Guide for complete details including EM/EC options.

Seem® 4
LED

RUN CHART

Run Length (ft)	Housing Configuration Section Lengths	Ordering Code
9	5 + 4	9
	9	9(IND)
10	6 + 4	10
	5 + 5	10(5+5)
	10	10(IND)
	7 + 4	11
11	11	11(IND)
	8 + 4	12
12	6 + 6	12(6+6)
	12	12(IND)
	8 + 5	13
	8 + 6	14
15	8 + 7	15
16	8 + 8	16
17	8 + 5 + 4	17
18	8 + 6 + 4	18
19	8 + 7 + 4	19
20	8 + 8 + 4	20
21	8 + 8 + 5	21
22	8 + 8 + 6	22
23	8 + 8 + 7	23
24	8 + 8 + 8	24
25	8 + 8 + 5 + 4	25

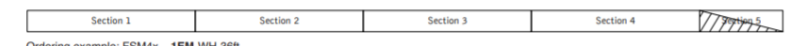
Standard and Alternate run configurations, consult factory for custom configurations.

EM/EC GUIDE

DEFAULT LOCATIONS

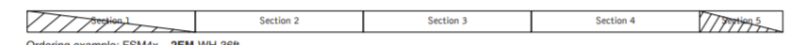
- By default, EM/EC are located at the end (last section) of a run when one EM/EC location is specified, and at the start and end when two locations are specified.
- EM/EC illuminate entire sections from 4' to 12' in length.
- Feed location is at start of run. All EC's are fed individually at the end of each fixture segment.

1 EM/EC - END OF RUN



Ordering example: FSM4x...1EM-WH-36ft

2 EM/EC - START & END OF RUN



Ordering example: FSM4x...2EM-WH-36ft

ALTERNATE LOCATIONS AND QUANTITIES

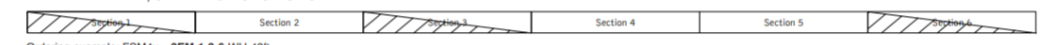
- If more than two locations are required, or specific locations within run need to be specified, indicate in the ordering string.

ONE EM IN 3RD SECTION



Ordering example: FSM4x...1EM-3-WH-40ft

THREE EM IN 1ST, 3RD AND 6TH SECTIONS



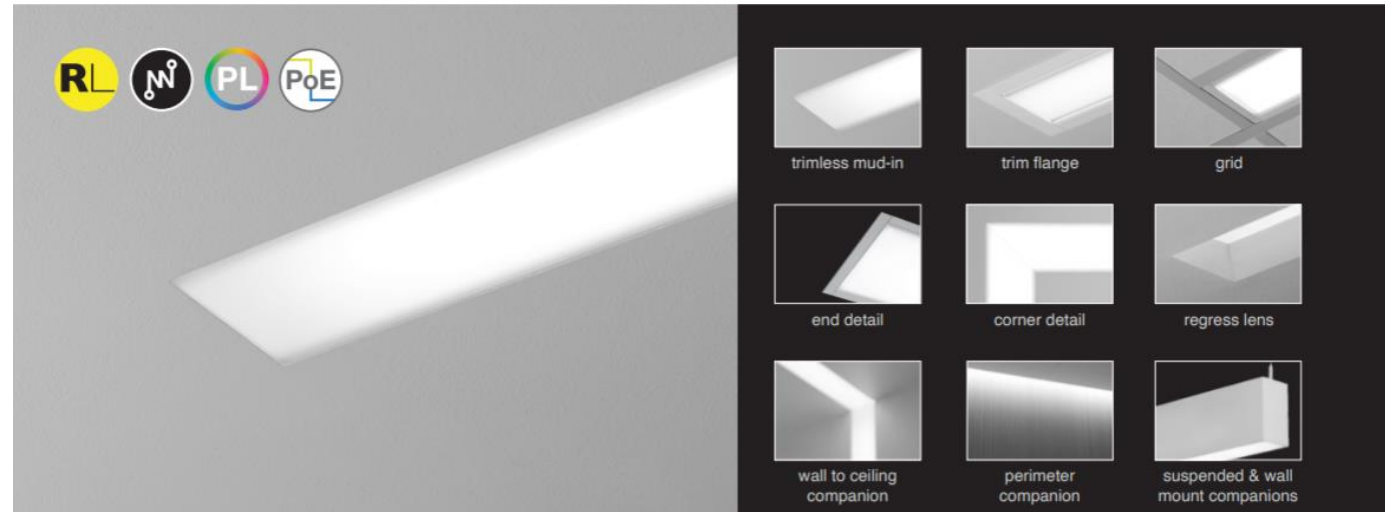
Ordering example: FSM4x...3EM-1-3-6-WH-48ft

CUSTOM LENGTHS

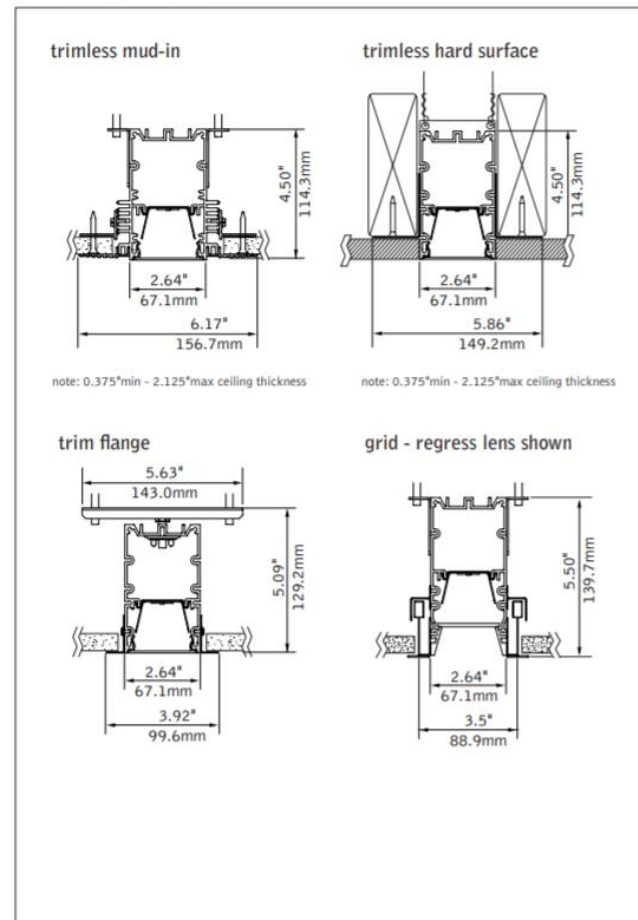
- If partial illumination of emergency section is required, indicate quantity in ordering string and partial illumination in Order Notes. Drawing required.
- Longer lead times may apply.

CUTSHEETS - TYPE C

Seem[®] 2
LED



DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum 2.5" aperture recessed slot LED. Integrates with ceiling or wall in a variety of mounting styles for a clean, unobtrusive aesthetic.

Individual units and continuous runs in 1" increments.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Connected Solutions: Integrates with wired and wireless building lighting control systems.

Preferred Light: Lighting for better color rendition and human preference.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

PERFORMANCE

PRODUCT OVERVIEW

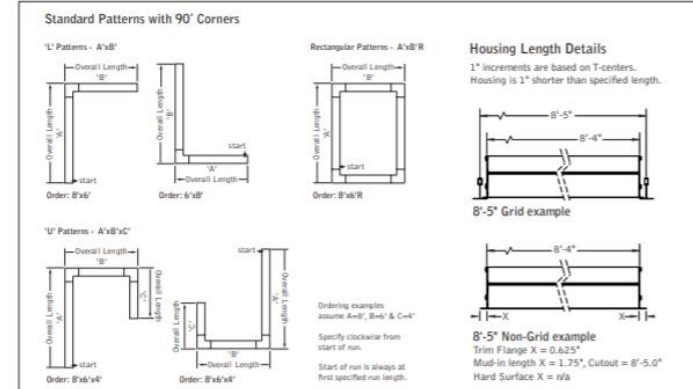
Lumen Output: 500-2500lm
Wattage: 5-43W
LPW: 71-89
SDCM: 3

4' Flush Lens
Nominal output: 250 Lumens per foot
Delivered Lumens: 1000lm
Total System Watts: 14W

Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data.

fixture: _____ project: _____

DETAILS



SPECIFICATIONS

LED System
Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. 2' unit: 5.1 lbs., 3' unit: 7.6 lbs., 4' unit: 10.1 lbs., 5' unit: 12.6 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft. Emergency Circuit with Connected Solutions (NLT1, ENL1, CLM1, CLM21, DLM1) shipped standard with leads to connect UL924 compliant device, by others. See EM/EC Guide for default locations and ordering details.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 270,000 hours
L90 at >61,000 hours L90 at 73,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Flush Lens	125LF	500	5	89
	250LF	1000	14	88
	375LF	1500	18	88
Regress Lens	625LF	2500	31	87
	125LF	500	7	72
	250LF	1000	16	72
Regress High Performance Lens	375LF	1500	26	71
	125LF	500	6	84
	250LF	1000	13	83
Regress High Performance Lens	375LF	1500	19	84
	625LF	2500	33	83

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING	FSM2L	FSM2L
Luminaire Series		
Seem 2 LED	FSM2L	
Shielding		
Flush Satin Lens	FL	
Regress Lens <small>(Housing height 5.5". Ceiling applications only)</small>	SR	
Regress High Performance Lens <small>(Housing height 5.5". Ceiling applications only)</small>	SRXP	
Lumen Output		
125 Lumens per foot <small>(LD1, L11 & D11 only. 4' minimum.)</small>	125LF	
250 Lumens per foot <small>(Not available with LU5 & LH1. 4' minimum with D11 & FL lens.)</small>	250LF	
375 Lumens per foot <small>(4' minimum with LU5 & LH1 or D11 with FL lens.)</small>	375LF	
625 Lumens per foot <small>(3' minimum with LU5 & LH1)</small>	625LF	
Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI	30K or 930K	
3500K, 80+ CRI or 90+ CRI	35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
3500K, Preferred Light <small>(Flush Lens only. 6" increments. Not available with Emergency Battery or patterns.)</small>	P35K	
Circuit		
Single Circuit	1C	1C
Voltage		
UNV 120/277 Volt	UNV	
Low voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low-voltage, PoE compatible <small>(No driver. Not available with EM or EC. LV Voltage only.)</small>	LVN	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming	LU5	
DALI 1% Dimming	D11	
Acuity nLight - 1% Dimming <small>(3' minimum length. Not available with CP. Grid only.)</small>	NLT1	
Enlighted Smart Sensor - 1% Dimming <small>(3' minimum length. Grid only.)</small>	ENL1	
Osram Connected Lighting Module for ENCELIUM systems - 1% Dimming <small>(3' minimum length. Grid only. Compatible with Osram ENCELIUM and ENCELIUM EDGE systems only.)</small>	CLM1	
Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming <small>(3' minimum length. Grid only. Not compatible with Osram ENCELIUM systems.)</small>	CLM21	
Wattstopper [®] DLM - 1% Dimming <small>(3' minimum length. Grid only.)</small>	DLM1	
Ceiling Configuration		
Std. 15/16" Lay-in	G1	
Std. 15/16" Tegular	T1	
Std. 9/16" Lay-in	G2	
Std. 9/16" Tegular	T2	
9/16" Slot-tee Tegular	G3	
Tall 15/16" Lay-in	G4	
Tall 15/16" Tegular	T4	
Tall 9/16" Lay-in	G5	
Tall 9/16" Tegular	T5	
Node 9/16" Tegular	T6	
Trim Flange Drywall	TF	
Trim Flange Wood	TFW	
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field <small>(Mounting equipment assembled in field)</small>	XFF	
Non-Drywall Hard Surface	XFN	
Hard Surface, Wood	XFW	
Factory Options		
Chicago Plenum <small>(Not available with Flex Whip)</small>	CP	
Emergency Circuit [*] <small>(4' minimum, 7' minimum with CLM1, CLM21, DLM1, ENL1 & NLT1.)</small>	EC	
Emergency Battery Pack [*] <small>(4' minimum, 7' minimum with CLM1, CLM21, DLM1, ENL1 & NLT1. Not available at corners. See EM/EC Guide for default locations and ordering details.)</small>	EM	
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6" Flex Whip	FW	
Finish		
Matte White Housing	WH	WH
Luminaire Length <small>Specify luminaire/row length in 1" increments (2' minimum, lengths are nominal 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns. Smaller increments available, consult factory.)</small>		_ft_in
Pattern Options <small>(3' minimum length)</small>		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern <small>(Consult factory for other pattern options)</small>	A' x B' R	



Options in orange qualify for the Quickship program. 1000' total. Refer to Quickship Guide for complete details including EMEC options.

CUTSHEETS - TYPE D



GO FIGURE RPD07 | SUSPENDED, SURFACE

STANDARD SIZES

2" Aperture
Nominal lengths from 6in. to 8ft. (6in increments)
Customizable 3D design, tailor-made to illuminate any space

LAMPING

LED - Single-Sided Illumination
90+ CRI - 2700K/3000K/3500K/4000K
Dimming down to 0%

FINISH

18 standard finishes available at no extra charge
RAL classic colors, TCI / Tiger Drylac catalog colors, and custom color match also available

CONSTRUCTION

Industrial Strength Extruded Aluminum



RPD07 - SPECIFICATIONS
SUSPENDED, SURFACE

ALWUSA.COM

PRODUCT SUBMITTAL WORKSHEET

SAMPLE PRODUCT CODE

RPD07 - 35 - 8 - 5 - 3500 - 0/10V/S - BAL - UNV - EMB
1 2 3 4 5 6 7

1. BASE MODEL (CHOOSE ONE)

- RPD07** Suspension/Pendant Mount
 RPD07-C Surface Mount (for wall or ceiling)

2. BAR LENGTH & HUB COUNT (USE CHART ON PAGE 5 TO CALCULATE TOTAL LINEAR LENGTH OF BARS IN FEET)

TOTAL LINEAR LENGTH (FEET) OF BARS QUANTITY OF HUBS			COMPLETE CODE <small>Separate each with a dash and enter in box below. ex: 5 - 6 - 10</small>
Single Illuminated (S)	Blank Unilluminated (B)	Quantity of Hubs (H)	
_____	_____	_____	_____

3. LED LAMPING (CHOOSE ONE)

- 2700** 90+ CRI, 2700K (very warm)
 3000 90+ CRI, 3000K (warm)
 3500 90+ CRI, 3500K (slightly warm)
 4000 90+ CRI, 4000K (neutral)

DELIVERED LUMENS PER LINEAR FOOT	WATTS PER LINEAR FOOT
686 LM/FT (WHITE)	9 W/FT (WHITE)

4. REMOTE DRIVER (CHOOSE ONE)

- 0/10V/S** 0-10V dimming down to 10% (Standard Dimming)
 0/10V/1% 0-10V dimming down to 1%
 0/10V/0% 0-10V premium dimming down to 0%
 DMX DMX flicker free dimming down to 0%
 ECOSYS1 Lutron Hi-lume 1% EcoSystem, constant voltage
 LTEA Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only), constant voltage

*All drivers are remote. Fixture is ETL listed and conforms to UL Standard 2108. Driver specifications provided upon request to assist with control system integration.

5. FINISH (CHOOSE ONE. SEE PAGE 12 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)

STANDARD FINISHES

ALUMINUM

- BA** Brushed Aluminum

BASIC POWDER COAT

- GW** Gloss White
 SW Satin White
 AW Antimicrobial Satin White
 TW Textured Matte White
 TB Textured Matte Black

METALLIC POWDER COAT

- SG** Silver Gray
 CG Charcoal Gray
 CU Copper
 BR Brass

SATIN ANODIZED EFFECT POWDER COAT

- CS** Clear Silver
 OB Oil-Rubbed Bronze
 DB Dark Bronze
 SB Satin Black

GLOSS POWDER COAT (80-95% GLOSS)

- GO** Orange (RAL 2003)
 GR Red (RAL 3020)
 GM Magenta (RAL 4010)
 GB Blue (RAL 5015)

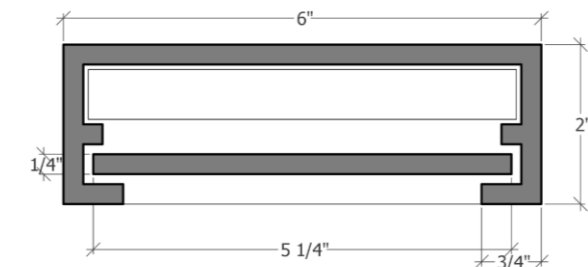
SPECIAL ORDER FINISHES

- RAL** Specify RAL Classic Color (Ex: RAL 3003) - Most RAL Colors are available for powder coat. See www.alwusa.com/finishes
 CAT Specify Catalog Colors - Specify colors from the Tiger Drylac and TCI catalogs
 CCM Custom Color Match - Specify a custom powder coat color match

6. VOLTAGE

- UNV** Universal Voltage (120VAC-277VAC)

7. DIMENSIONAL DATA



CUTSHEETS - TYPE D (ORIGINAL)



GO FIGURE RPD07 | SUSPENDED, SURFACE

STANDARD SIZES
2" Aperture
Nominal lengths from 6in. to 8ft. (6in increments)
Customizable 3D design, tailor-made to illuminate any space

LAMPING
LED - Single-Sided Illumination
90+ CRI - 2700K/3000K/3500K/4000K
Dimming down to 0%

FINISH
18 standard finishes available at no extra charge
RAL classic colors, TCI / Tiger Drylac catalog colors, and custom color match also available

CONSTRUCTION
Industrial Strength Extruded Aluminum



PRODUCT SUBMITTAL WORKSHEET

SAMPLE PRODUCT CODE

RPD07 - 35 - 8 - 5 - 3500 - 0/10V/S - BAL - UNV - EMB

1. BASE MODEL (CHOOSE ONE)

- RPD07 Suspension/Pendant Mount
 RPD07-C Surface Mount (for wall or ceiling)

2. BAR LENGTH & HUB COUNT (USE CHART ON PAGE 5 TO CALCULATE TOTAL LINEAR LENGTH OF BARS IN FEET)

TOTAL LINEAR LENGTH (FEET) OF BARS QUANTITY OF HUBS			COMPLETE CODE <small>Separate each with a dash and enter in box below. ex: 5 - 6 - 10</small>
Single Illuminated (S)	Blank Unilluminated (B)	Quantity of Hubs (H)	
_____	_____	_____	_____

3. LED LAMPING (CHOOSE ONE)

- 2700 90+ CRI, 2700K (very warm)
 3000 90+ CRI, 3000K (warm)
 3500 90+ CRI, 3500K (slightly warm)
 4000 90+ CRI, 4000K (neutral)

DELIVERED LUMENS PER LINEAR FOOT	WATTS PER LINEAR FOOT
686 LM/FT (WHITE)	9 W/FT (WHITE)

4. REMOTE DRIVER (CHOOSE ONE)

- 0/10V/S 0-10V dimming down to 10% (Standard Dimming)
 0/10V/1% 0-10V dimming down to 1%
 0/10V/0% 0-10V premium dimming down to 0%
 DMX DMX flicker free dimming down to 0%
 ECOSYS1 Lutron Hi-lume 1% EcoSystem, constant voltage
 LTEA Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only), constant voltage

*All drivers are remote. Fixture is ETL listed and conforms to UL Standard 2108. Driver specifications provided upon request to assist with control system integration.



5. FINISH (CHOOSE ONE. SEE PAGE 12 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)

STANDARD FINISHES

ALUMINUM

- BA Brushed Aluminum

BASIC POWDER COAT

- GW Gloss White
 SW Satin White
 AW Antimicrobial Satin White
 TW Textured Matte White
 TB Textured Matte Black

METALLIC POWDER COAT

- SG Silver Gray
 CG Charcoal Gray
 CU Copper
 BR Brass

SATIN ANODIZED EFFECT POWDER COAT

- CS Clear Silver
 OB Oil-Rubbed Bronze
 DB Dark Bronze
 SB Satin Black

GLOSS POWDER COAT (80-95% GLOSS)

- GO Orange (RAL 2003)
 GR Red (RAL 3020)
 GM Magenta (RAL 4010)
 GB Blue (RAL 5015)

SPECIAL ORDER FINISHES

- RAL Specify RAL Classic Color (Ex: RAL 3003) - Most RAL Colors are available for powder coat. See www.alwusa.com/finishes
 CAT Specify Catalog Colors - Specify colors from the Tiger Drylac and TCI catalogs
 CCM Custom Color Match - Specify a custom powder coat color match

6. VOLTAGE

- UNV Universal Voltage (120VAC-277VAC)

7. ADDITIONAL OPTIONS (OPTIONAL - CHOOSE ONE IF DESIRED)

- EMB Emergency Battery
 EMC Emergency Circuit

*Consult ALW for more details.

SS011020-A.0

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6 of 13

RPD07 - SPECIFICATIONS
SUSPENDED, SURFACE

SS011020-A.0

ALWUSA.COM
7 of 13

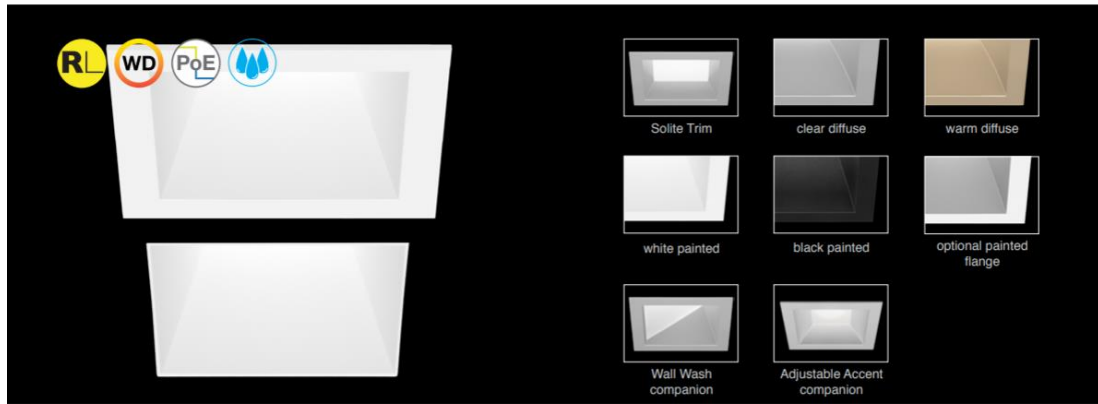
RPD07 - SPECIFICATIONS
SUSPENDED, SURFACE

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RPD07 - SPECIFICATIONS
SUSPENDED, SURFACE

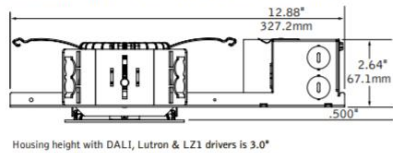
CUTSHEETS - TYPE E

ID+ 3.5" x 3.5"
OVERLAP & TRIMLESS LED DOWNLIGHTS



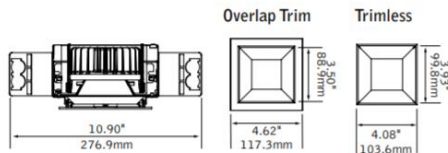
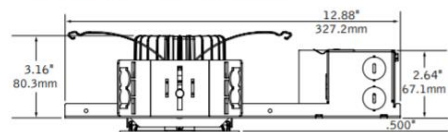
DIMENSIONAL DATA

Very Shallow Housing - 60° and 75° cut-off reflectors



Housing height with DALI, Lutron & LZ1 drivers is 3.0"

Shallow Housing - 50° cut-off reflector

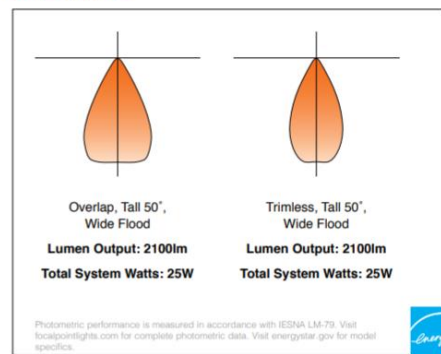


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FEATURES

- Less than 2.64" low profile housing available.
- Field adjustability of ceiling thickness from 0.5" - 1.5".
- 50°, 60° and 75° cut-off reflector options available.
- Outdoor rating permits use in outdoor covered ceiling applications.
- Solite lens with ID+ 3.5" Adjustable Accent and delivers 70° or 90° beam spread options.
- Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

PERFORMANCE



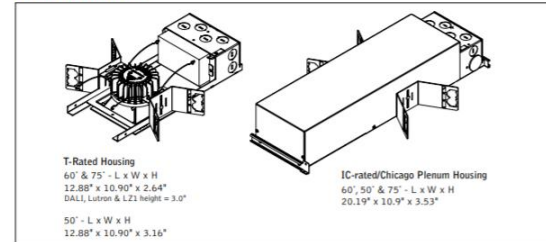
Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit energystar.gov for model specifics.



August 2020 Z

fixture: _____ project: _____

HOUSING DETAILS



HOUSING SPECIFICATIONS

Construction
Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E263. Butterfly brackets allow mounting to 1/2" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. Trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

Electrical
Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency
Above ceiling access required. Overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height — Clear Diffuse & White: 22.5ft. Black & Warm Diffuse: 15.3ft.

Labels
UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

Lumen Maintenance
Reported: L70 at >55,000 hours Calculated: L70 at 204,000 hours
L90 at >55,000 hours L90 at 59,000 hours
Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty
LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warranted for operation in ambient environments between -20°C to +40°C.

TRIM & LED SPECIFICATIONS
LED System
Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, or Warm Dimming (2700K-1800K and 3000K-1800K), CRI>80, >90 or 97, 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics
Die-formed aluminum reflector ensures glare free optics. Torsion springs pull trim tight to the ceiling with **no visible fasteners** within the trim.

Optics
50-degree, 60-degree or 75-degree cut-off to light source and its image.

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT	50°	Overlap	25° 0.42	34° 0.56	44° 0.70	52° 0.85	64° 0.97	-
		Trimless	24° 0.41	34° 0.56	45° 0.70	58° 0.86	66° 0.99	-
DNS	60°	Overlap	24° 0.41	34° 0.56	45° 0.70	59° 0.86	72° 1.01	-
		Trimless	24° 0.40	34° 0.56	45° 0.70	60° 0.88	69° 1.07	-
DSS	75°	Overlap	-	-	-	-	69° 0.99	92° 1.21
		Trimless	-	-	-	-	72° 0.99	92° 1.26

PERFORMANCE TABLE - see page 3.

Focal Point LLC reserves the right to change specifications for product improvement without notification.



Options in orange qualify for the Quickship program 5-day up to 200 pieces. Refer to Quickship Guide for complete details.

HOUSING ORDERING		FLC33D	FLC33D
Housing Series	ID+ 3.5"		
Trim Type	Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options	Standard White, 80 & 90 CRI High 97 CRI	SW HC WDM	
Warm Dim (1500L only, UNV, LV & EMR not available.)			
Lumen Output	700 Lumen (not available with Lutron or LFP) 900 Lumen (not available with LFP) 1100 Lumen 1300 Lumen 1500 Lumen 1700 Lumen 1900 Lumen 2100 Lumen	700L 900L 1100L 1300L 1500L 1700L 1900L 2100L	
Voltage	120/277 Volt 120V 277V (T-rated housing only)	UNV LV	
Control System & Dimming Level	0-10V - 0% Dimming 0-10V - 1% Dimming 0-10V - 10% Dimming Low Voltage, PoE Compatible (No driver. Not available with EMR, LV voltage only.)	LZ1 L11 LD1 LVN	
Forward Phase	Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming Lutron S-Series EcoSystem (LDE5) - 5% Dimming Lutron Hi-Lume - Forward Phase (120V only) - 1% Dimming	LFP LH1 LUS LTE	
DALI	DALI - 0% Dimming DALI - 1% Dimming	DZ1 D11	
Housing Type	IC-Rated / Airtight (120V max.) Thermally Protected, Non-IC / Airtight	IC T TW	
Factory Options	Chicago Plenum Bar Hangers Emergency Battery - Remote test switch (Overlap trim, SW or HC only. Not available with CP or IC-rated housing. Above ceiling access required.)	BH CP EMR	
Outdoor Rated	(LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 3.)	OD	
TRIM & LED MODULE	Aperture 3.5" Square	LC33	LC33
Trim Type	Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options	(Trim & housing output must match) Standard White, 80 & 90 CRI High 97 CRI Warm Dim (1500L only)	SW HC WDM	
Lumen Output	(Trim & housing output must match) 700 Lumen 900 Lumen 1100 Lumen 1300 Lumen 1500 Lumen 1700 Lumen 1900 Lumen 2100 Lumen	700L 900L 1100L 1300L 1500L 1700L 1900L 2100L	
Color Temperature	(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Warm Dim: 2700-1800K, 90+ CRI Warm Dim: 3000-1800K, 90+ CRI	-27K -30K -35K -40K 92718W 93018W	
Optic	Tall Cone with 50° cut-off Short Cone with 60° cut-off Super Short Cone with Solite Lens 75° cut-off (WFL or SWFL only)	DNT DNS DSS	
Distribution	Narrow Flood Flood 1 Wide Flood Very Wide Flood Super Wide Flood (DSS Optic only)	NFL FL1 FL2 WFL VWFL SWFL	
Finish	Clear Diffuse Warm Diffuse Black White	CD WD BK WH	
Optional Flange Finish	(Overlap CD & WD finish only) (For matching finishes leave blank)	BP WP	
ACCESSORIES	Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT	

SQUARE DOWNLIGHT PERFORMANCE TABLE

Lumen Output	Delivered Lumens	System Watts	LPW
700L	722	8	91
900L	937	10	93
1100L	1130	12	96
1300L	1355	16	84
1500L	1539	18	86
1500L	1485	25	59
1700L	1751	20	86
1900L	1925	22	87
2100L	2159	25	87

Based on Overlap, Tall Cone, 3000K, 80 CRI, Wide Flood, Clear Diffuse, WDM based on 3000 - 1800K, 90 CRI. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

SQUARE DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

Trim Type	Optic	Color Temperature & CRI	Multiplier
ALL	ALL	80+ CRI [27K]	0.93
		2700K 90+ CRI [927K]	0.75
		97 CRI [H27K]	0.67
		80+ CRI [30K]	0.93
		3000K 90+ CRI [930K]	0.81
		97 CRI [H30K]	0.72
		80+ CRI [35K]	1.00
		3500K 90+ CRI [935K]	0.81
		97 CRI [H35K]	0.73
		80+ CRI [40K]	1.00
		4000K 90+ CRI [940K]	0.87
		97 CRI [H40K]	0.75
2700-1800K 90+ CRI [92718K]	1.02		
3000-1800K 90+ CRI [93018K]	1.04		

Distribution

Trim Type	Optic	Distribution	Multiplier
Square Die-Cast Trimless (SDT)	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.93
		Flood 1 [FL1]	1.00
		Flood 2 [FL2]	0.92
		Wide Flood [WFL]	1.13
		Very Wide Flood [VWFL]	0.90
		Short Cone with 60° cut-off [DNS]	0.95
Square Die-Cast Overlap (SDO)	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.94
		Flood 1 [FL1]	1.00
		Flood 2 [FL2]	0.93
		Wide Flood [WFL]	1.03
		Very Wide Flood [VWFL]	0.86
		Short Cone with 60° cut-off [DNS]	0.95
Square Die-Cast Trimless (SDT)	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Narrow Flood [NFL]	1.07
		Very Wide Flood [VWFL]	1.02
		Super Wide Flood [SWFL]	1.02
		Very Wide Flood [VWFL]	1.03
		Super Wide Flood [SWFL]	0.98
		Super Wide Flood [SWFL]	0.98
Square Die-Cast Overlap (SDO)	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Narrow Flood [NFL]	1.07
		Very Wide Flood [VWFL]	1.02
		Super Wide Flood [SWFL]	1.02
		Very Wide Flood [VWFL]	1.03
		Super Wide Flood [SWFL]	0.98
		Super Wide Flood [SWFL]	0.98

Color

Trim Type	Optic	Color	Multiplier		
ALL	Tall Cone with 50° cut-off [DNT]	Clear Diffuse [CD]	1.00		
		Warm Diffuse [WD]	1.01		
		White [WH]	1.23		
		Black [BK]	0.79		
		Short Cone with 60° cut-off [DNS]	Clear Diffuse [CD]	1.00	
			Warm Diffuse [WD]	0.89	
			White [WH]	0.97	
			Black [BK]	0.83	
			Super Short Cone with Solite Lens with 75° cut-off [DSS]	Clear Diffuse [CD]	1.00
				Warm Diffuse [WD]	0.99
		White [WH]		1.15	
		Black [BK]		0.88	

How To Use Lumen Multipliers

Formula:
(Lumen Output Value) x
(Color Temperature & CRI) x
(Distribution) x
(Color)

Example:
LC33-SDO-SW-1100L-935K-DNS-FL-1-WH
(1100) x (0.81) x (1.02) x (0.97) = 882lm
(estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of these multipliers. Refer to IES files for most accurate photometric information.

CUTSHEETS - TYPE F

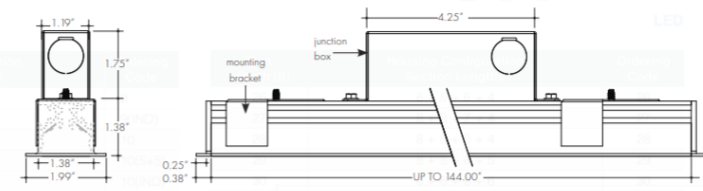
Kilo Recessed System Recessed linear illumination



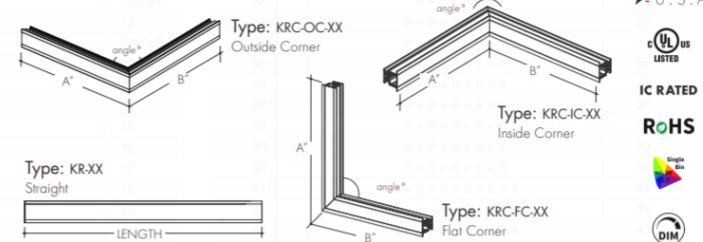
Extruded aluminum linear corners complete an area that contains corners or straight turns. Kilo Recessed Corners have mitered cuts that are available in a standard 90°, or custom angle. The Kilo Recessed Corner is suitable for general illumination, architectural accents, display cases and many other discrete recessed applications. Class 2 listed for damp locations.



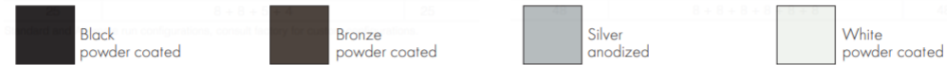
Kilo Recessed Profile W/ junction box



Kilo Recessed System Options



Finish options



Technical Information

Output	Lumens at 3000K (with clear lens)	Average power consumption at 4'	Lumens / Watt (with clear lens)
SO (2 x 11.36)	329 lm/ft	6.5 W/ft	51 lm/W
MO (2 x 11.54)	489 lm/ft	9.7 W/ft	50 lm/W
HO (2 x 11.72)	735 lm/ft	12.0 W/ft	61 lm/W

CCT INFO / LUMEN MULTIPLIER		TM-30-15		
Color Temperature	Multiplier (reference: 3000K)	CRI	R _f	R _g
1900K	0.63	96	94	97
2200K	0.68	96	95	101
2400K	0.72	98	97	101
2700K	0.76	97	96	101
2900K	0.82	98	96	102
3000K	1.00	97	95	104
3500K	1.05	97	94	105
4100K	1.37	97	90	99

Ordering code

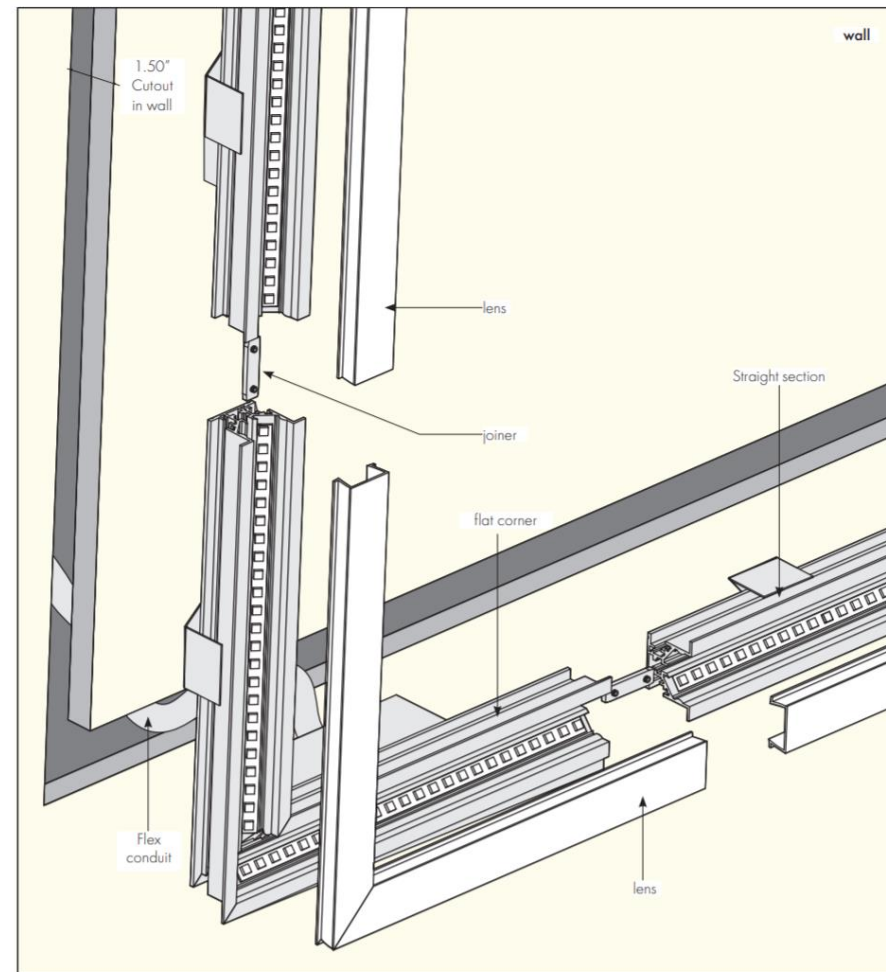
MODEL	CORNER TYPE	ANGLE	CCT	OUTPUT	LENS	FINISH	LEFT END	RIGHT END	POWER FEED POSITION
KRC	IC	90	19K	SO	F	SA	LE	RE	B

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Kilo Recessed System Recessed linear illumination



Corners assembly examples



Ordering code for straight sections

MODEL	LENGTH	CCT	OUTPUT	LENS	FINISH	LEFT END	RIGHT END	POWER FEED POSITION / TYPE
KR	12	19K	SO	F	SA	LE	RE	B

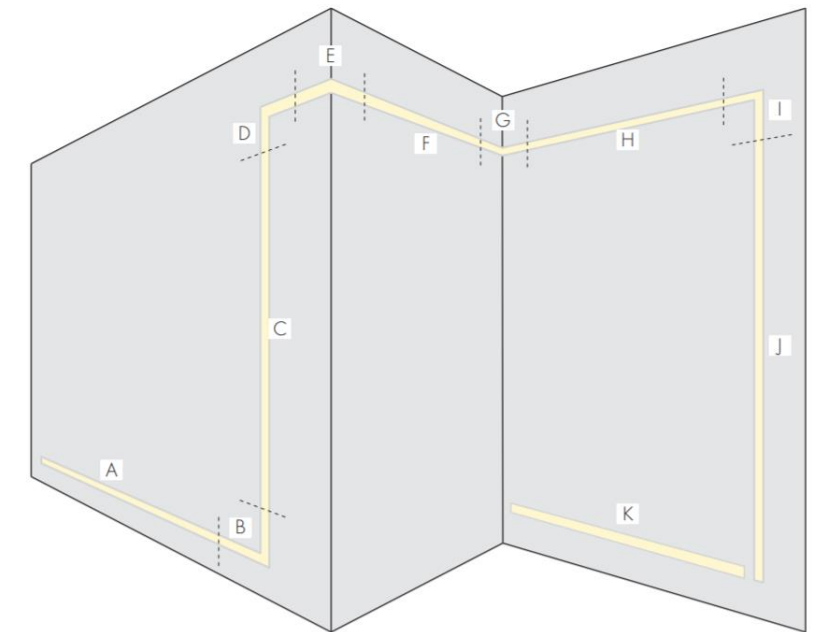
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Kilo Recessed System Recessed linear illumination



Layout example

Corner types are ordered individually following ordering code on page 1. If using corners to complete a system follow Kilo recessed ordering code for all straight runs on page 2.



Example ordering codes for the above layout

Section	Ordering Code	Description
A	KR - 108 - 29K - MO - F - SA - LE - RN - B-1	9'-0" straight run, medium output
B	KRC - FC - 90 - 29K - MO - F - SA - LN - RN - B-1	90° flat corner turn, medium output
C	KR - 72 - 29K - MO - F - SA - LN - RN - B-1	6'-0" straight run, medium output
D	KRC - FC - 90 - 29K - MO - F - SA - LN - RN - B-1	90° flat corner turn, medium output
E	KRC - OC - 90 - 29K - MO - F - SA - LN - RN - B-1	90° outside corner turn, medium output
F	KR - 36 - 29K - MO - F - SA - LN - RN - B-1	3'-0" straight run, medium output
G	KRC - IC - 90 - 29K - MO - F - SA - LN - RN - B-1	90° inside corner turn, medium output
H	KR - 48 - 29K - MO - F - SA - LN - RN - B-1	4'-0" straight run, medium output
I	KRC - FC - 90 - 29K - MO - F - SA - LN - RN - B-1	90° flat corner turn, medium output
J	KR - 84 - 29K - MO - F - SA - LN - RE - B-1	7'-0" straight run, medium output
K	KR - 48 - 29K - MO - F - SA - LE - RE - B-1	4'-0" straight run, medium output

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CUTSHEETS - TYPE J

Queue Sconce

Sconces

**Rich
Brilliant
Willing**

50 Greene St
New York NY 10013
T +1 212 388 1621
sales@rbw.com



DESCRIPTION

Queue is a linear LED pendant and sconce system with limitless potential, designed for flexible installation and an inviting presence. Originally conceived as an answer to the monotony of workplace systems, Queue exudes a welcoming light and rich beauty in the subtle, rounded facets of its surface.

MATERIALS

Textured PMMA lens, Anodized aluminum body

COLLECTION NOTES

White Gold AA-02 requires minimum 20 business day lead time.

PERFORMANCE

3900 lm for 44" length
Power Consumption 45W
Luminaire Watts 45W
86 lm/W
90 CRI

LED LIFESPAN

50k hours

CERTIFICATION

ADA Compliant
UL Listed
Suitable for Damp Locations



PRODUCT DIMENSIONS

2.6 x 3.9 x 24.2 in H (24") | 2.6 x 3.9 x 44 in H (44")

PRODUCT WEIGHT

8 lbs / 3.6 kg

DIMENSIONAL WEIGHT

16 lbs (24") | 18 lbs (44")

YOUR PRODUCT CODE

QS-24-AA04-30-277_TR_DIN

Specification Logic

LENGTH

24"	24
44"	44

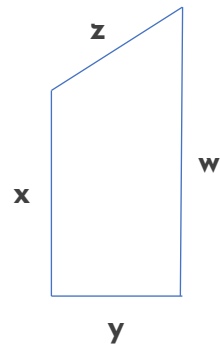
PRIMARY FINISH

Clear Anodize	AA01
Black Anodize	AA04
Custom Anodize	AAXX
Custom Powder Coat	PCXX

For 2D & 3D drawings of all products, including CAD, Revit and IES files, please visit rbw.com

APPENDICES

APPENDIX A - TYPE "A" (A09 to A15) BIKE DISPLAY BOTTOM PANELS SIZING



#	x	y	w	z
A09	18' 4"	2' 6"	20' 2"	3' 1"
A10	16' 3"	2' 6"	18' 4"	3' 1"
A11	14' 1"	2' 6"	16' 3"	3' 1"
A12	11' 11"	2' 6"	14' 1"	3' 1"
A13	9' 9"	2' 6"	11' 11"	3' 1"
A14	7' 8"	2' 6"	9' 9"	3' 1"
A15	5' 6"	2' 6"	7' 8"	3' 1"

APPENDIX C - TYPE "C" RECESSED LINEAR CEILING LIGHTS SIZING

Length for all fixtures as specified in 1st and 2nd floor RCP

1 st floor		2 nd floor	
C25-27	5' 0"	C05	9' 0"
C01-04	8' 0"	C06	8' 6"
C22-24	8' 0"	C07	8' 2"
C28-30	8' 0"	C08	7' 9"
C50, C51, C53	8' 0"	C09	6' 9"
		C10-C21	8' 0"
		C31-C49	8' 0"
		C54	8' 0"

APPENDIX B - TYPE "B" EXTRUDED LED LINEAR PENDANT SIZING

Length for all fixtures as specified in 1st floor and 1st floor RCP

1 st floor			2 nd floor		
Fixture	Length	Mounting Height	Fixture	Length	Mounting Height
B01	8' 6"	6' 6" from FF	B03	12' 8"	6' from FF
B02	9' 11"	6' 6" from FF			

APPENDIX D - TYPE "D" PENDANT MOUNT SIZING

Length for all segments as specified in 2nd floor RCP

Lower segment		Mid segment		Top segment		Horizontal segment	
D01	8' 8"	D10	17' 11"	D19	15' 11"	D28	12' 9"
D02	10' 0"	D11	18' 9"	D20	19' 8"	D29	13' 9"
D03	11' 5"	D12	19' 11"	D21	19' 7"	D30	14' 9"
D04	12' 9"	D13	21' 1"	D22	19' 7"	D31	15' 9"
D05	14' 3"	D14	22' 4"	D23	19' 7"	D32	16' 9"
D06	15' 8"	D15	23' 6"	D24	19' 8"	D33	17' 9"
D07	17' 2"	D16	24' 9"	D25	19' 10"	D34	18' 9"
D08	18' 8"	D17	26' 0"	D26	20' 3"	D35	8' 10"
D09	20' 5"	D18	27' 4"	D27	21' 0"	D36	9' 10"