

EDGE EX1D

1" Suspended Direct Linear

Key Features

- Veil Louver optics deliver comfort and control in a compact 1.5" aperture
- UGR < 5; supports glare-conscious design aligned with LEED and WELL project goals
- Louver finishes: Matte Black, Matte White, or Chrome Silver metallic
- Four beam spreads: 14°, 38°, 58°, 75° for focused or ambient illumination
- Mix Veil Louver with lensed or blank sections within one continuous run
- Compatible with Edge Hubs for pattern creation
- 5-year warranty



Example Part #: EX1D-VB/MB/NR-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX1D - **N** - - - - - - - - - - - - -

DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT	LENGTH OR PATTERN	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
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DIRECT SHIELDING		specification example: VB/MB/M1		N	INDIRECT SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²	
V - Veil Louver (full fixture)	<i>Other Selections for TLO options</i>	N - None	27 - 2700K	-----	-----	-----	-----	-----
VB - Veil Louver and Blank Sections	<i>Louver Color</i>	<i>Indirect Shielding pg. 2</i>	30 - 3000K	-----	-----	-----	-----	-----
VA - Veil Louver and Satine Lens	MB - Matte Black	35 - 3500K	-----	-----	-----	-----	-----	-----
VHE - Veil Louver and High Efficiency Lens	MW - Matte White	40 - 4000K	-----	-----	-----	-----	-----	-----
VBW - Veil Louver and Batwing Insert	CS - Chrome Silver	CL - Custom Lumens	-----	-----	-----	-----	-----	-----
VWHE - Veil Louver and Asymmetric Insert	WD - Wide 58°	CW - Custom Watts	-----	-----	-----	-----	-----	-----
<i>Direct Shielding pg. 2</i>	VW - Very Wide 75°	<i>Source pg. 3</i>	<i>Length or Pattern pg. 4</i>					

MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC_G - AC to Grid AC_JB - AC to J Box AC_ST - AC to Structure S - Surface Mount AC5_G - 5" Non-Power Canopy AC5_JB - 5" Non-Power Canopy SQ_G - 5" Square Canopy SQ_JB - 5" Square Canopy <i>Mounting pg. 5</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 5</i>	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) OL4 - eldoLED 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 5</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) <i>Circuiting pg. 6</i>

BATTERY & EMERGENCY ⁴	FINISH	Fixture Options ⁵	CONTROLS
0 - None FSB - Factory Select Battery ILL - Iota 10W PLL - Bodine 10W <i>Battery & Emergency pg. 6</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 6</i>	DSP - Customer supplied Battery/Driver/Sensor BA - Build America Buy America Compliant <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

¹When specifying CRI, CCT & OUTPUT the first _ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in **2', 3', 4', 5', 6', 7', & 8'** lengths. Continuous row come in 1' increments starting at 2'. **VB** is offered starting at 4' and up to 24' standard. **V-Lens** is offered starting at 4' and up to 16' standard. Patterns are only available with **V** - Fully louvered fixture option and use a non-illuminated hub (**H**) see page 3 for more information. For patterns Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example: AC48G1 "Enter quantity for Battery and Emergency, Example 2PLL. ⁵Compliance is configuration dependent; consult factory for confirmation.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



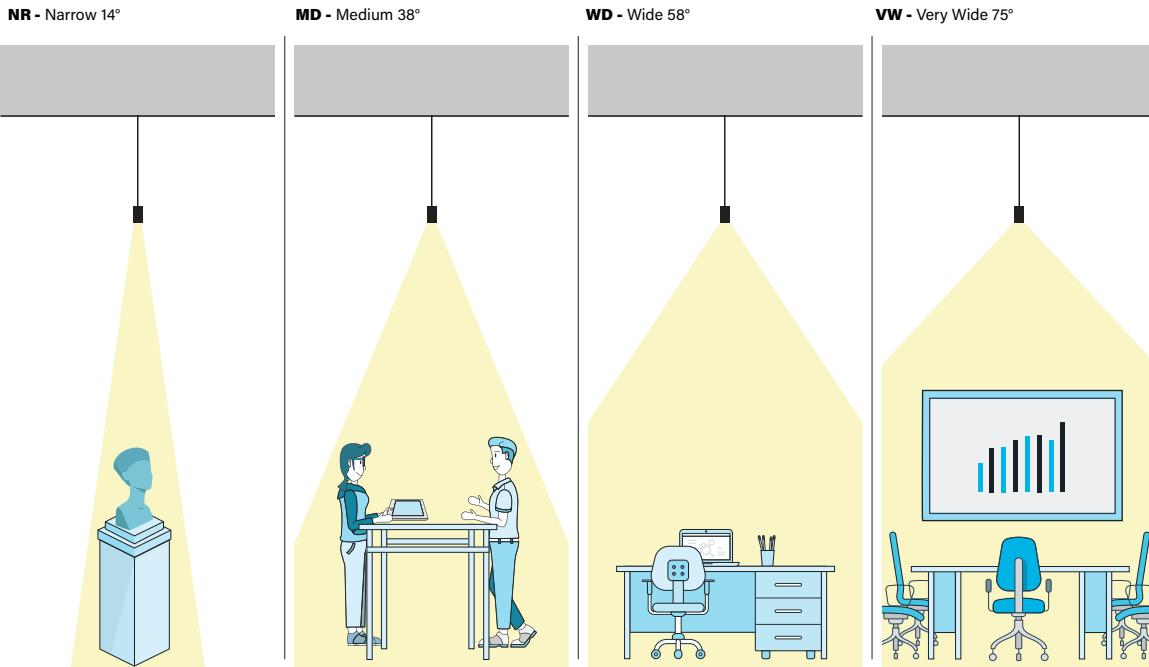
Shielding

Louver Color

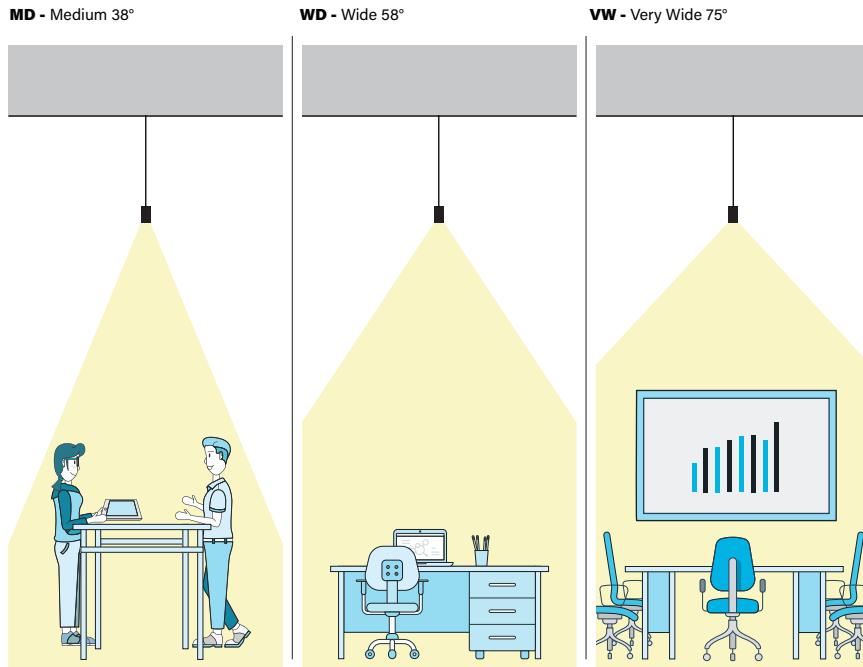


Optic Distribution

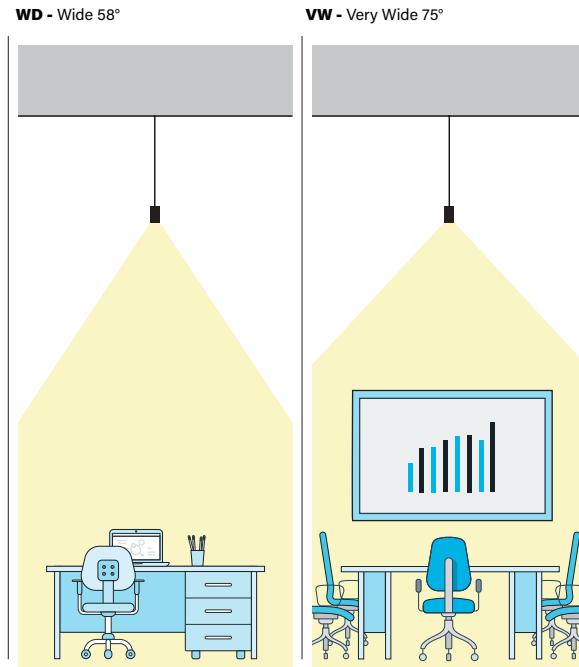
NR - Narrow 14°



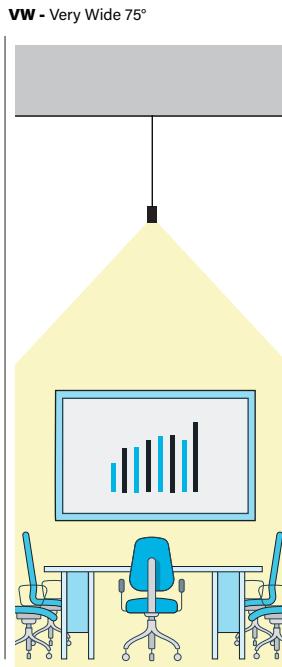
MD - Medium 38°



WD - Wide 58°



VW - Very Wide 75°



Lensing

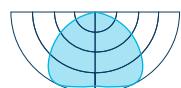
A



HE



BW



WHE



Indirect

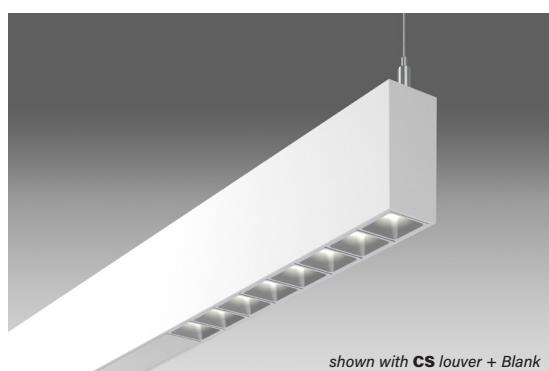
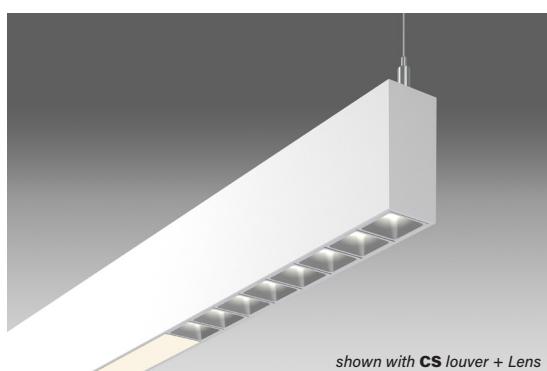
N

None

Combination Shielding Option

- Available with a combination of louver & lensed or louver & blank sections
- Louver will always be 12" sections
- Louver & blanks are available up to 24' standard with the louver sections evenly spaced in the run, max blank length of 3ft

- Louver & lens are available up to 16' standard with the louver sections at the start and end of the runs
- Louver combination layouts available [here](#)



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EX1D_Veil_SPEC_FEBRUARY2026

page 2



CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 90 CRI = R9≥50
- Output values for Veil Louver apply to all finishes

Custom Output - Lumens OR Wattage

CL_____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW_____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct Veil Louver 80 CRI

	Color	Lumens per foot	Veil Distribution				WD	VW		
			NR		MD					
830		500	120	4.2	116	4.3	120	4.2	112	4.5
830HO	3000K	750	115	6.5	111	6.8	115	6.5	107	7.0
830VHO		1000	112	8.9	108	9.3	111	9.0	104	9.6
835		500	123	4.1	119	4.2	122	4.1	114	4.4
835HO	3500K	750	118	6.3	114	6.6	117	6.4	110	6.8
835VHO		1000	115	8.7	110	9.1	114	8.8	107	9.4
840		500	121	4.1	117	4.3	120	4.2	113	4.4
840HO	4000K	750	116	6.4	112	6.7	115	6.5	108	6.9
840VHO		1000	113	8.8	109	9.2	112	8.9	105	9.5

Direct Veil Louver 90 CRI

927		500	89	5.6	86	5.8	89	5.6	83	6.0
927HO	2700K	750	86	8.7	83	9.1	85	8.8	80	9.4
927VHO		1000		N/A		N/A		N/A		N/A
930		500	95	5.3	91	5.5	94	5.3	88	5.7
930HO	3000K	750	91	8.3	87	8.6	90	8.3	84	8.9
930VHO		1000		N/A		N/A		N/A		N/A
935		500	97	5.2	93	5.4	96	5.2	89	5.6
935HO	3500K	750	92	8.1	89	8.4	92	8.2	86	8.7
935VHO		1000	89	11.2		N/A	88	11.3		N/A
940		500	102	4.9	98	5.1	101	4.9	95	5.3
940HO	4000K	750	98	7.7	94	8.0	97	7.7	91	8.3
940VHO		1000	94	10.6	91	11.0	94	10.7		N/A

Direct Lensed 80 CRI

	Color	Lumens per foot	Shielding				BW	WHE		
			A		HE					
830		500	92	5.4	116	4.3	84	5.9	101	4.9
830HO	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3
830VHO		1000	93	10.7	118	8.5	84	11.9	105	9.5
835		500	95	5.2	119	4.2	87	5.8	105	4.8
835HO	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0
835VHO		1000	97	10.4	122	8.2	87	11.5	107	9.3
840		500	95	5.2	119	4.2	87	5.8	105	4.8
840HO	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0
840VHO		1000	97	10.4	122	8.2	87	11.5	107	9.3

Direct Lensed 90 CRI

927		500	74	6.7	96	5.2	70	7.2	84	6.0
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8
927VHO		1000	74	13.5	97	10.3		N/A	84	12.0
930		500	81	6.1	102	4.9	74	6.7	91	5.5
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1
930VHO		1000	81	12.3	106	9.4	74	13.5	93	10.8
935		500	81	6.2	102	4.9	74	6.8	91	5.5
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1
935VHO		1000	81	12.4	106	9.5	74	13.6	92	10.8
940		500	81	6.2	102	4.9	74	6.8	91	5.5
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1
940VHO		1000	81	12.4	106	9.5	74	13.6	92	10.8

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EX1D_Veil_SPEC_FEBRUARY2026

page 3



Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, add 1/8" (3.2mm) for each end plate or 1/4" (6.4mm) to the overall length of the row
- Louver & blanks are available up to 24' standard with the louver sections evenly spaced in the run, max blank length of 3ft
- Louver & lens are available up to 16' standard with the louver sections at the start and end of the runs
- Louver combination layouts available [here](#)

2	3	4	5	6	7	8	-
Indiv. Fixture	Cont. Run Specify nominal overall row length to the foot						
24" (609.6mm)							
	36" (914.4mm)						
		48" (1219.2mm)					
			60" (1524mm)				
				72" (1828.8mm)			
					84" (2133.6mm)		
						96" (2438.4mm)	

Specify to the foot ➤➤➤

Patterns

- Patterns only available when ordering the V fully louvered option, not available with VB or V+lens
- Specify pattern shape and dimensions per leg(s)
- Length specified will not reflect overall pattern dimensions
- Patterns cannot be used with S mounting
- Angles and shapes not shown require MOD Pattern; consult factory
- For MOD patterns factory drawings and sign off required



HS_	HR_x_	HTR_	HH_	HU_x_x_	HL_x_	HY_x_	HT_x_	HX_x_
Square Hub Provide A dimension Example: HS4	Rectangle Hub Provide AxB dimensions Example: HR4x2	Triangle Hub Provide A dimension Example: HTR4	Hexagon Hub Provide A dimension Example: HH4	U-Shape Hub Provide AxBxC dimensions Example: HU3x4x3	L-Shape Hub Provide AxB dimensions Example: HL3x3	Y-Shape Hub Provide AxBxC dimensions Example: HY3x3X3	T-Shape Hub Provide AxBxC dimensions Example: HT3x5X3	X-Shape Hub Provide AxBxCd dimensions Example: X3x3x3x3

Non-illuminated Hub Details					
H90 90° Hub	HTR Triangle Hub	HH Hexagon Hub	HY Y-Shape Hub	HT T-Shape Hub	HX X-Shape Hub

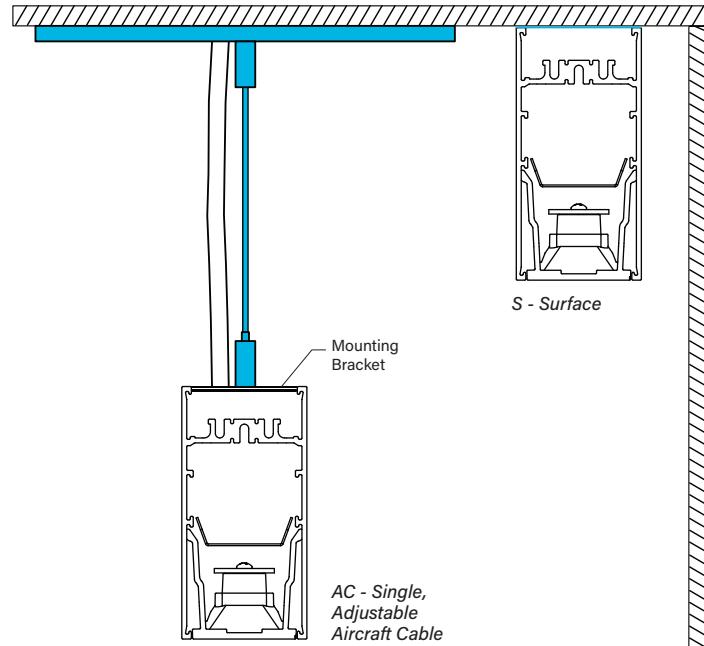


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240", or 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_GS	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_ST	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
S	Surface Mount

- Canopies and pendants match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details.
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation
- Maximum fixture weight is 10 lbs for a standard 4' fixture



Voltage

- Some EX1D configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX1D configurations will not accommodate all driver options; consult with factory

0-10V Drivers

FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v, Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v, Linear
ES1	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0.1%, 0-10v, Linear

DALI Drivers

EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6

Lutron Drivers

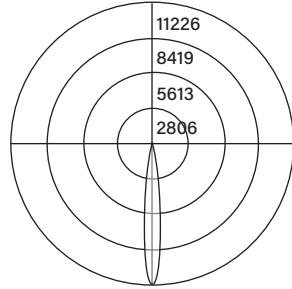
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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Photometrics

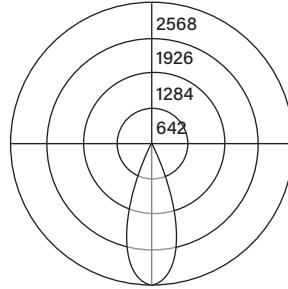
Narrow

Test # KPL2015-161
Catalog # EX1D-V/MB/NR-840-1
Lumens 1012 lms
Watts 9.4W
Efficacy 108 LPW



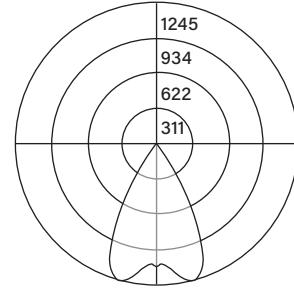
Medium

Test # KPL2015-162
Catalog # EX1D-V/MB/MD-840-1
Lumens 1002 lms
Watts 9.7W
Efficacy 103 LPW



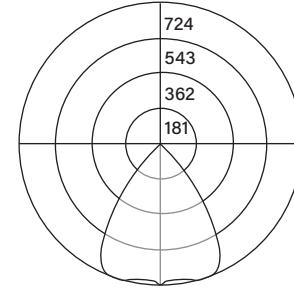
Wide

Test # KPL2015-163
Catalog # EX1D-V/MB/WD-840-1
Lumens 1004 lms
Watts 9.4W
Efficacy 107 LPW



Very Wide

Test # KPL2015-164
Catalog # EX1D-V/MB/VW-840-1
Lumens 1003 lms
Watts 10.2W
Efficacy 99 LPW



Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	11226	11226	11226	11226	11226	11226
5	7952	8011	8031	7976	7893	
10	2926	2962	2987	2987	2965	
15	817	825	846	845	860	
20	316	319	335	332	337	
25	165	162	171	169	172	
30	94	90	94	95	97	
35	47	49	50	51	51	
40	11	21	25	23	11	
45	3	5	13	5	4	
50	3	3	4	3	3	
55	2	2	2	2	3	
60	0	1	1	1	0	
65	0	0	0	0	0	
70	0	0	0	0	0	
75	0	0	0	0	0	
80	0	0	0	0	0	
85	0	0	0	0	0	
90	0	0	0	0	0	

Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	2560	2560	2560	2560	2560	2560
5	2510	2509	2517	2491	2462	
10	2277	2266	2252	2236	2231	
15	1826	1834	1820	1786	1778	
20	1182	1184	1173	1148	1152	
25	511	509	507	496	499	
30	128	130	131	126	123	
35	30	31	32	29	27	
40	12	14	15	13	12	
45	6	8	10	7	6	
50	4	4	6	4	4	
55	2	3	3	2	3	
60	0	1	1	1	0	
65	0	0	0	0	0	
70	0	0	0	0	0	
75	0	0	0	0	0	
80	0	0	0	0	0	
85	0	0	0	0	0	
90	0	0	0	0	0	

Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	1074	1074	1074	1074	1074	1074
5	1097	1100	1105	1097	1084	
10	1158	1161	1172	1174	1169	
15	1212	1219	1228	1233	1245	
20	1147	1171	1184	1169	1177	
25	919	932	939	916	928	
30	524	525	525	514	521	
35	176	183	186	178	174	
40	34	41	45	41	35	
45	7	10	17	10	7	
50	3	4	7	4	3	
55	2	2	3	2	2	
60	0	1	1	1	0	
65	0	0	0	0	0	
70	0	0	0	0	0	
75	0	0	0	0	0	
80	0	0	0	0	0	
85	0	0	0	0	0	
90	0	0	0	0	0	

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	423	1554	491
55	230	348	380
65	31	36	40
75	45	45	60
85	141	128	177

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	757	1195	754
55	337	424	393
65	24	31	30
75	37	39	46
85	101	105	137

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	819	2012	834
55	300	420	259
65	26	33	29
75	33	41	39
85	107	115	107

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14207	15926	13508
55	283	2238	335
65	40	49	47
75	38	37	41
85	90	93	105

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions.



Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance. Louver: polycarbonate shade with various finishes (matte, gloss), removable for maintenance. Acrylic optics over individual LEDs. Blank: extruded aluminum, powder coated, removable for maintenance.

Mounting: Aircraft cable and surface mount available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. TM-21-21 Lifetime Rating L70 = >60,000 hours, L90 = 49,900 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 101°F/39°C. For more driver options, see Pinnacle Resource Guide. Some EDGE configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), or Emergency circuit (E). Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Mod options available, consult with factory.

Build America, Buy America Act (BABA) Compliance: BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.