

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P867040

Luminaire Tested: PRLX-2002-L-930-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-83L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

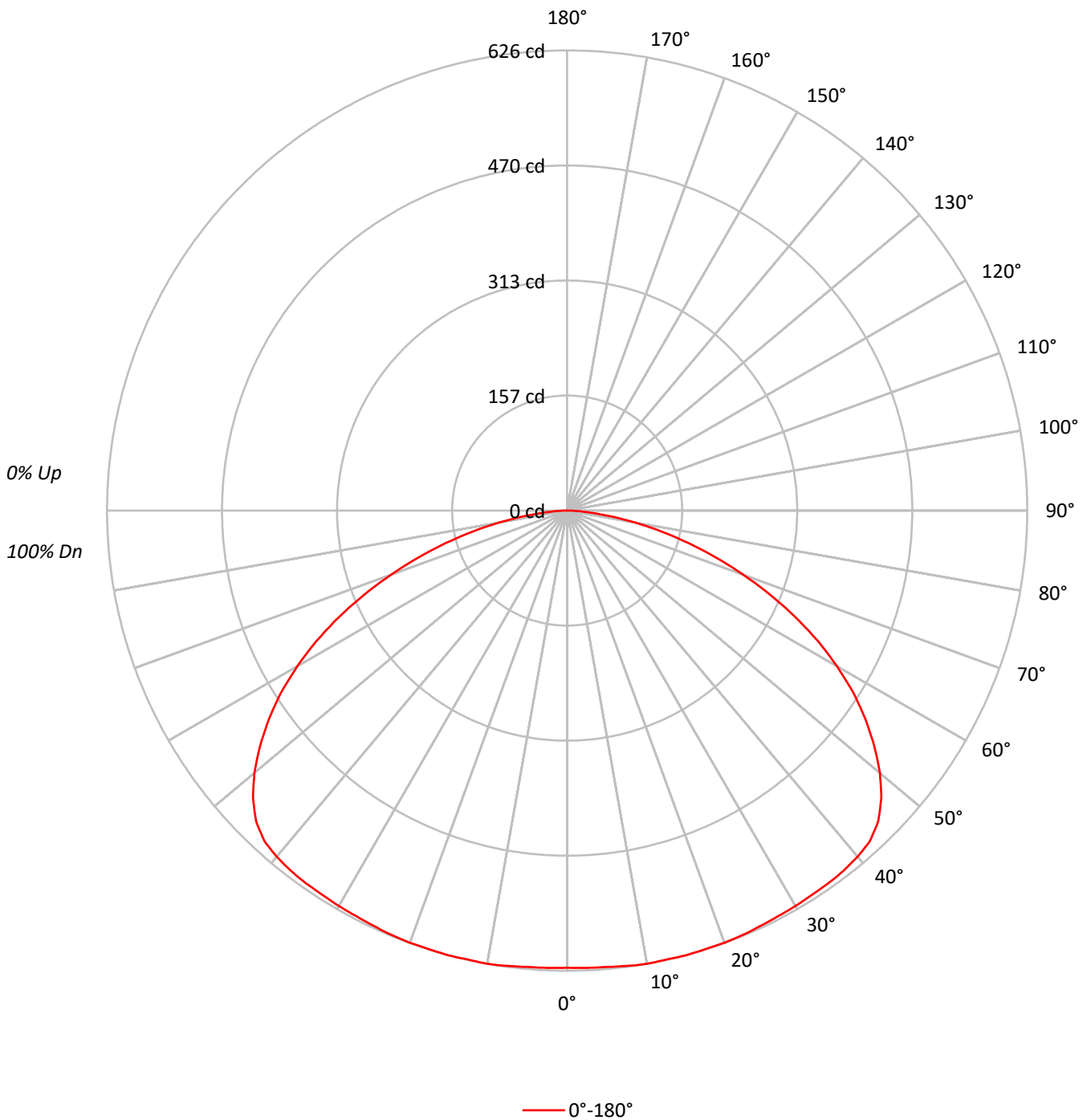
Lumens per Lamp: N/A
Luminaire Lumens: 2373.6 lumens
Efficiency: N/A
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3068
5°	3087
10°	3137
15°	3199
20°	3284
25°	3393
30°	3539
35°	3729
40°	3960
45°	4175
50°	4263
55°	4261
60°	4183
65°	3997
70°	3671
75°	3256
80°	2659
85°	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	2.5
10°-20°	177.4	7.5
20°-30°	288.5	12.2
30°-40°	388.6	16.4
40°-50°	458.8	19.3
50°-60°	441.5	18.6
60°-70°	337.7	14.2
70°-80°	181.3	7.6
80°-90°	40.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	525.4	22.1
0°-40°	914.0	38.5
0°-60°	1814.3	76.4
0°-90°	2373.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	622	
5°	623	60
15°	626	177
25°	623	288
35°	619	389
45°	598	459
55°	495	442
65°	342	338
75°	171	181
85°	32	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	621.9
2.5°	622.6
5°	623.3
7.5°	624.8
10°	626.2
12.5°	625.5
15°	626.2
17.5°	625.5
20°	625.5
22.5°	624.8
25°	623.3
27.5°	621.9
30°	621.2
32.5°	619.8
35°	619.1
37.5°	617.6
40°	614.8
42.5°	609.8
45°	598.3
47.5°	579.7
50°	555.4
52.5°	526.8
55°	495.4
57.5°	461.8
60°	423.9
62.5°	384.6
65°	342.4
67.5°	298.8
70°	254.5
72.5°	212.3
75°	170.8
77.5°	130.8
80°	93.6
82.5°	59.3
85°	31.5
87.5°	10.7
90°	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.66	19.37	18.02	19.69	20.00	17.66	19.37	18.02	19.69	20.00
	3H	19.41	20.97	19.79	21.29	21.65	19.41	20.97	19.79	21.29	21.65
	4H	20.02	21.48	20.41	21.83	22.20	20.02	21.48	20.41	21.83	22.20
	6H	20.41	21.77	20.82	22.14	22.53	20.41	21.77	20.82	22.14	22.53
	8H	20.51	21.82	20.94	22.20	22.60	20.51	21.82	20.94	22.20	22.60
	12H	20.57	21.81	20.99	22.19	22.62	20.57	21.81	20.99	22.19	22.62
4H	2H	18.31	19.77	18.70	20.12	20.49	18.31	19.77	18.70	20.12	20.49
	3H	20.26	21.49	20.67	21.89	22.29	20.26	21.49	20.67	21.89	22.29
	4H	20.98	22.10	21.41	22.51	22.94	20.98	22.10	21.41	22.51	22.94
	6H	21.49	22.47	21.94	22.90	23.36	21.49	22.47	21.94	22.90	23.36
	8H	21.63	22.54	22.08	22.98	23.44	21.63	22.54	22.08	22.98	23.44
	12H	21.71	22.53	22.18	23.00	23.47	21.71	22.53	22.18	23.00	23.47
8H	4H	21.27	22.18	21.73	22.62	23.09	21.27	22.18	21.73	22.62	23.09
	6H	21.87	22.63	22.36	23.11	23.59	21.87	22.63	22.36	23.11	23.59
	8H	22.05	22.74	22.56	23.24	23.72	22.05	22.74	22.56	23.24	23.72
	12H	22.18	22.78	22.68	23.27	23.83	22.18	22.78	22.68	23.27	23.83
12H	4H	21.29	22.12	21.77	22.59	23.06	21.29	22.12	21.77	22.59	23.06
	6H	21.90	22.59	22.41	23.09	23.58	21.90	22.59	22.41	23.09	23.58
	8H	22.14	22.74	22.64	23.23	23.79	22.14	22.74	22.64	23.23	23.79