

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: P867032

Luminaire Tested: PRLX-2002-L-930-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867032
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-930-67L-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 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

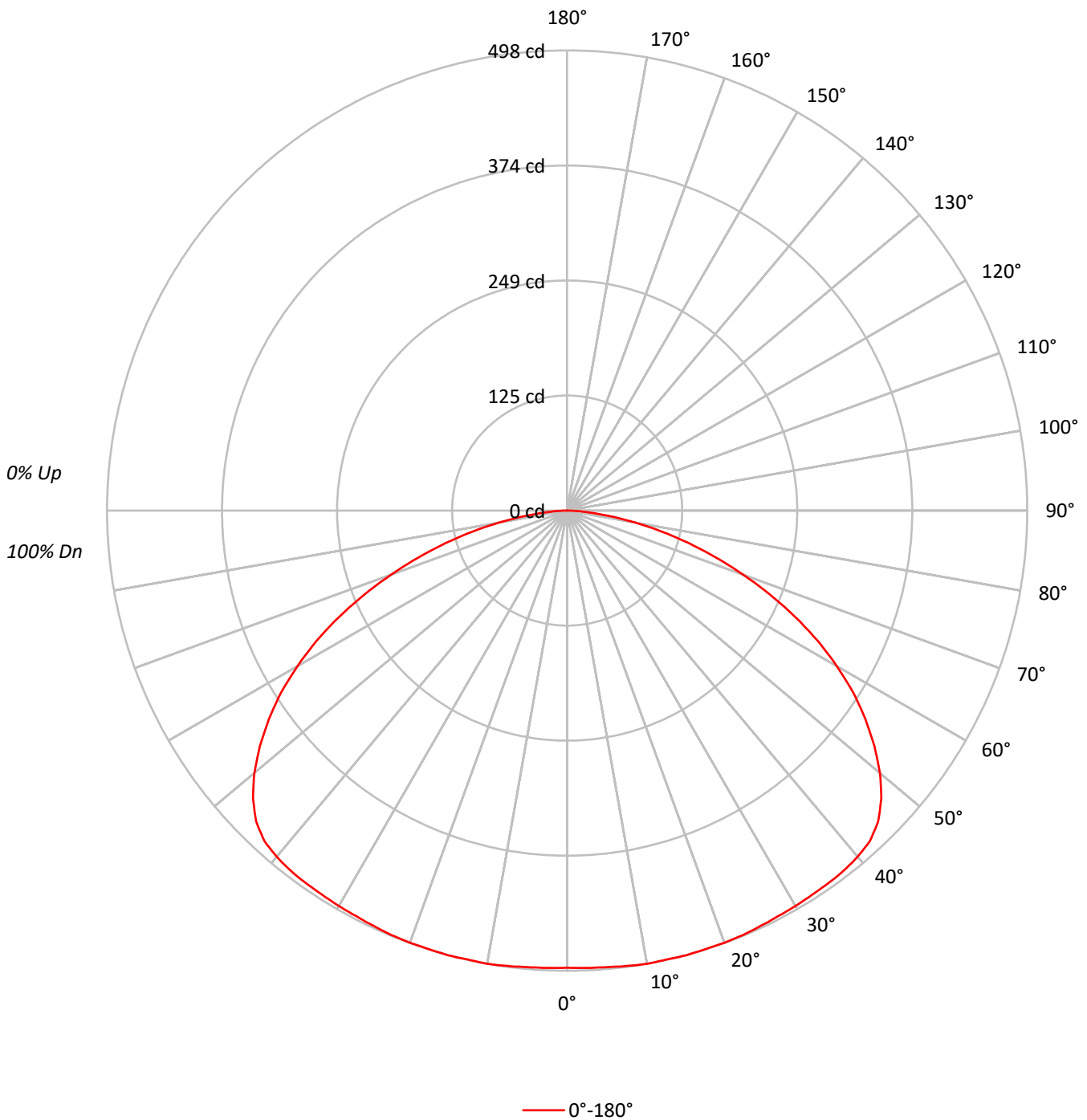
Lumens per Lamp: N/A
Luminaire Lumens: 1888.4 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (A_{in}): 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°	2441
5°	2456
10°	2496
15°	2545
20°	2613
25°	2700
30°	2815
35°	2966
40°	3150
45°	3321
50°	3392
55°	3390
60°	3328
65°	3180
70°	2921
75°	2591
80°	2117
85°	1415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	2.5
10°-20°	141.1	7.5
20°-30°	229.5	12.2
30°-40°	309.1	16.4
40°-50°	365.0	19.3
50°-60°	351.3	18.6
60°-70°	268.6	14.2
70°-80°	144.3	7.6
80°-90°	32.1	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°	418.0	22.1
0°-40°	727.1	38.5
0°-60°	1443.5	76.4
0°-90°	1888.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1888.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	495	
5°	496	47
15°	498	141
25°	496	229
35°	492	309
45°	476	365
55°	394	351
65°	272	269
75°	136	144
85°	25	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	494.8
2.5°	495.4
5°	495.9
7.5°	497.1
10°	498.2
12.5°	497.6
15°	498.2
17.5°	497.6
20°	497.6
22.5°	497.1
25°	495.9
27.5°	494.8
30°	494.2
32.5°	493.1
35°	492.5
37.5°	491.4
40°	489.1
42.5°	485.1
45°	476.0
47.5°	461.2
50°	441.9
52.5°	419.2
55°	394.1
57.5°	367.4
60°	337.3
62.5°	306.0
65°	272.4
67.5°	237.7
70°	202.5
72.5°	168.9
75°	135.9
77.5°	104.1
80°	74.5
82.5°	47.2
85°	25.0
87.5°	8.5
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	16.86	18.58	17.23	18.89	19.21	16.86	18.58	17.23	18.89	19.21
	3H	18.62	20.17	18.99	20.50	20.86	18.62	20.17	18.99	20.50	20.86
	4H	19.22	20.69	19.62	21.04	21.41	19.22	20.69	19.62	21.04	21.41
	6H	19.62	20.98	20.03	21.34	21.73	19.62	20.98	20.03	21.34	21.73
	8H	19.72	21.02	20.14	21.41	21.81	19.72	21.02	20.14	21.41	21.81
	12H	19.77	21.02	20.20	21.40	21.83	19.77	21.02	20.20	21.40	21.83
4H	2H	17.51	18.98	17.91	19.32	19.70	17.51	18.98	17.91	19.32	19.70
	3H	19.47	20.70	19.88	21.09	21.49	19.47	20.70	19.88	21.09	21.49
	4H	20.19	21.30	20.62	21.72	22.15	20.19	21.30	20.62	21.72	22.15
	6H	20.70	21.67	21.15	22.11	22.56	20.70	21.67	21.15	22.11	22.56
	8H	20.83	21.74	21.29	22.19	22.65	20.83	21.74	21.29	22.19	22.65
	12H	20.91	21.73	21.39	22.21	22.68	20.91	21.73	21.39	22.21	22.68
8H	4H	20.47	21.39	20.93	21.83	22.29	20.47	21.39	20.93	21.83	22.29
	6H	21.07	21.83	21.57	22.32	22.79	21.07	21.83	21.57	22.32	22.79
	8H	21.26	21.94	21.77	22.45	22.93	21.26	21.94	21.77	22.45	22.93
	12H	21.39	21.99	21.89	22.48	23.04	21.39	21.99	21.89	22.48	23.04
12H	4H	20.50	21.32	20.98	21.80	22.26	20.50	21.32	20.98	21.80	22.26
	6H	21.11	21.79	21.62	22.30	22.78	21.11	21.79	21.62	22.30	22.78
	8H	21.34	21.94	21.85	22.43	22.99	21.34	21.94	21.85	22.43	22.99