

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: P867025

Luminaire Tested: PRLX-2002-L-930-48L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-48L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

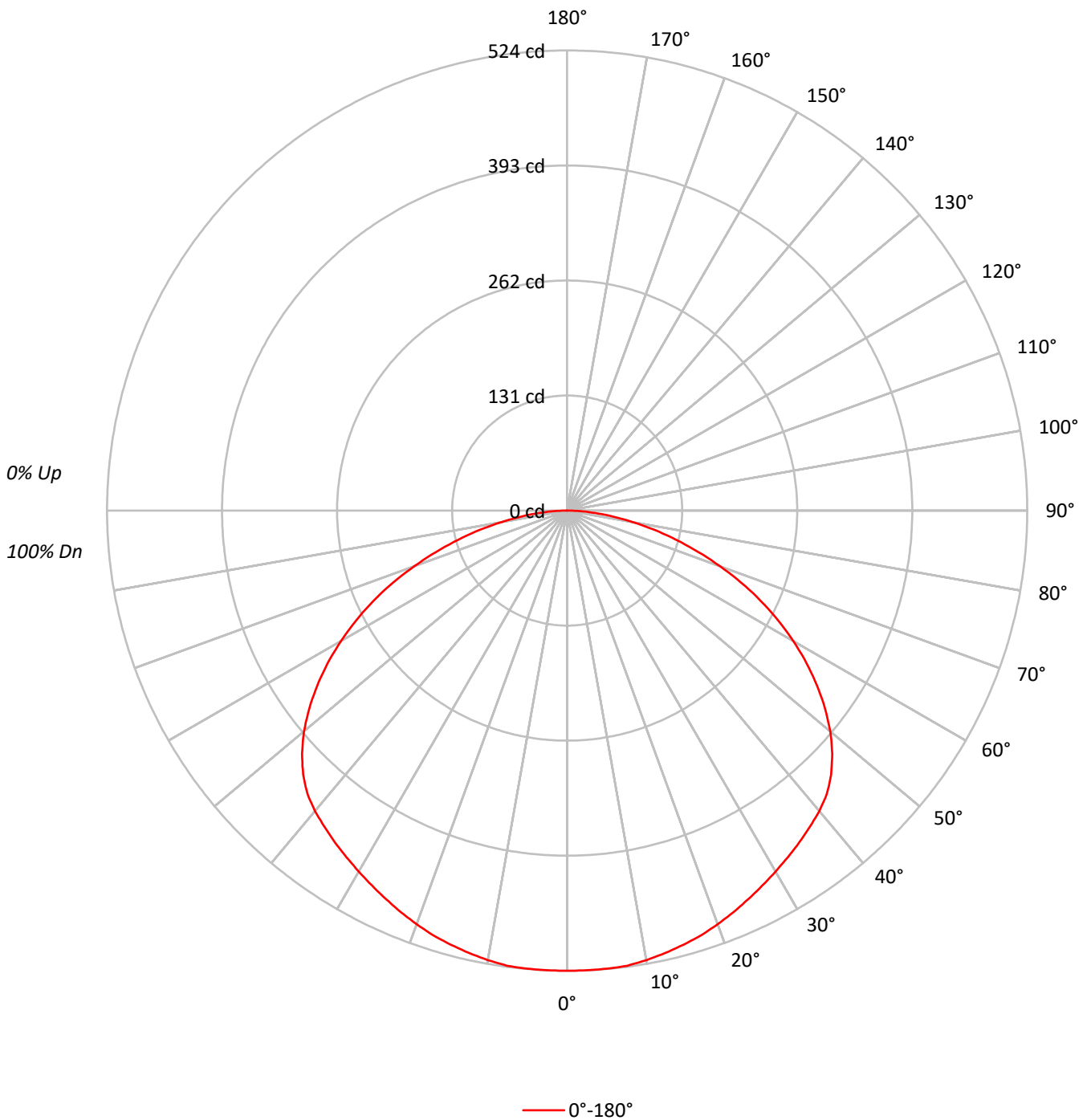
Lumens per Lamp: N/A
Luminaire Lumens: 1760.2 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2585
5°	2593
10°	2604
15°	2614
20°	2632
25°	2657
30°	2704
35°	2777
40°	2877
45°	2967
50°	3003
55°	2988
60°	2936
65°	2842
70°	2670
75°	2450
80°	2185
85°	1795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	2.8
10°-20°	144.7	8.2
20°-30°	225.6	12.8
30°-40°	289.2	16.4
40°-50°	326.9	18.6
50°-60°	309.9	17.6
60°-70°	240.1	13.6
70°-80°	136.5	7.8
80°-90°	37.5	2.1
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°	420.1	23.9
0°-40°	709.3	40.3
0°-60°	1346.1	76.5
0°-90°	1760.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	524	
5°	524	50
15°	512	145
25°	488	226
35°	461	289
45°	425	327
55°	347	310
65°	243	240
75°	128	137
85°	32	37
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	524.0
2.5°	524.0
5°	523.6
7.5°	522.8
10°	519.8
12.5°	516.0
15°	511.8
17.5°	507.1
20°	501.2
22.5°	494.9
25°	488.1
27.5°	481.4
30°	474.6
32.5°	467.8
35°	461.1
37.5°	453.9
40°	446.7
42.5°	437.8
45°	425.2
47.5°	409.5
50°	391.3
52.5°	370.2
55°	347.4
57.5°	323.3
60°	297.5
62.5°	270.9
65°	243.4
67.5°	214.7
70°	185.1
72.5°	156.4
75°	128.5
77.5°	101.9
80°	76.9
82.5°	53.2
85°	31.7
87.5°	14.4
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	16.24	17.94	16.61	18.26	18.57	16.24	17.94	16.61	18.26	18.57
	3H	18.08	19.62	18.46	19.95	20.31	18.08	19.62	18.46	19.95	20.31
	4H	18.75	20.20	19.15	20.55	20.92	18.75	20.20	19.15	20.55	20.92
	6H	19.24	20.59	19.65	20.95	21.34	19.24	20.59	19.65	20.95	21.34
	8H	19.39	20.68	19.82	21.07	21.47	19.39	20.68	19.82	21.07	21.47
	12H	19.49	20.73	19.92	21.11	21.54	19.49	20.73	19.92	21.11	21.54
4H	2H	16.91	18.36	17.31	18.71	19.08	16.91	18.36	17.31	18.71	19.08
	3H	18.96	20.18	19.36	20.57	20.97	18.96	20.18	19.36	20.57	20.97
	4H	19.75	20.86	20.18	21.27	21.70	19.75	20.86	20.18	21.27	21.70
	6H	20.36	21.33	20.82	21.77	22.23	20.36	21.33	20.82	21.77	22.23
	8H	20.57	21.47	21.02	21.92	22.38	20.57	21.47	21.02	21.92	22.38
	12H	20.71	21.53	21.19	22.00	22.47	20.71	21.53	21.19	22.00	22.47
8H	4H	20.07	20.98	20.53	21.42	21.88	20.07	20.98	20.53	21.42	21.88
	6H	20.80	21.56	21.29	22.05	22.52	20.80	21.56	21.29	22.05	22.52
	8H	21.07	21.75	21.58	22.26	22.74	21.07	21.75	21.58	22.26	22.74
	12H	21.29	21.89	21.79	22.38	22.94	21.29	21.89	21.79	22.38	22.94
12H	4H	20.11	20.92	20.58	21.40	21.87	20.11	20.92	20.58	21.40	21.87
	6H	20.86	21.54	21.37	22.05	22.53	20.86	21.54	21.37	22.05	22.53
	8H	21.19	21.79	21.69	22.28	22.84	21.19	21.79	21.69	22.28	22.84