

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: P866389

Luminaire Tested: PRLX-2002-M-940-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

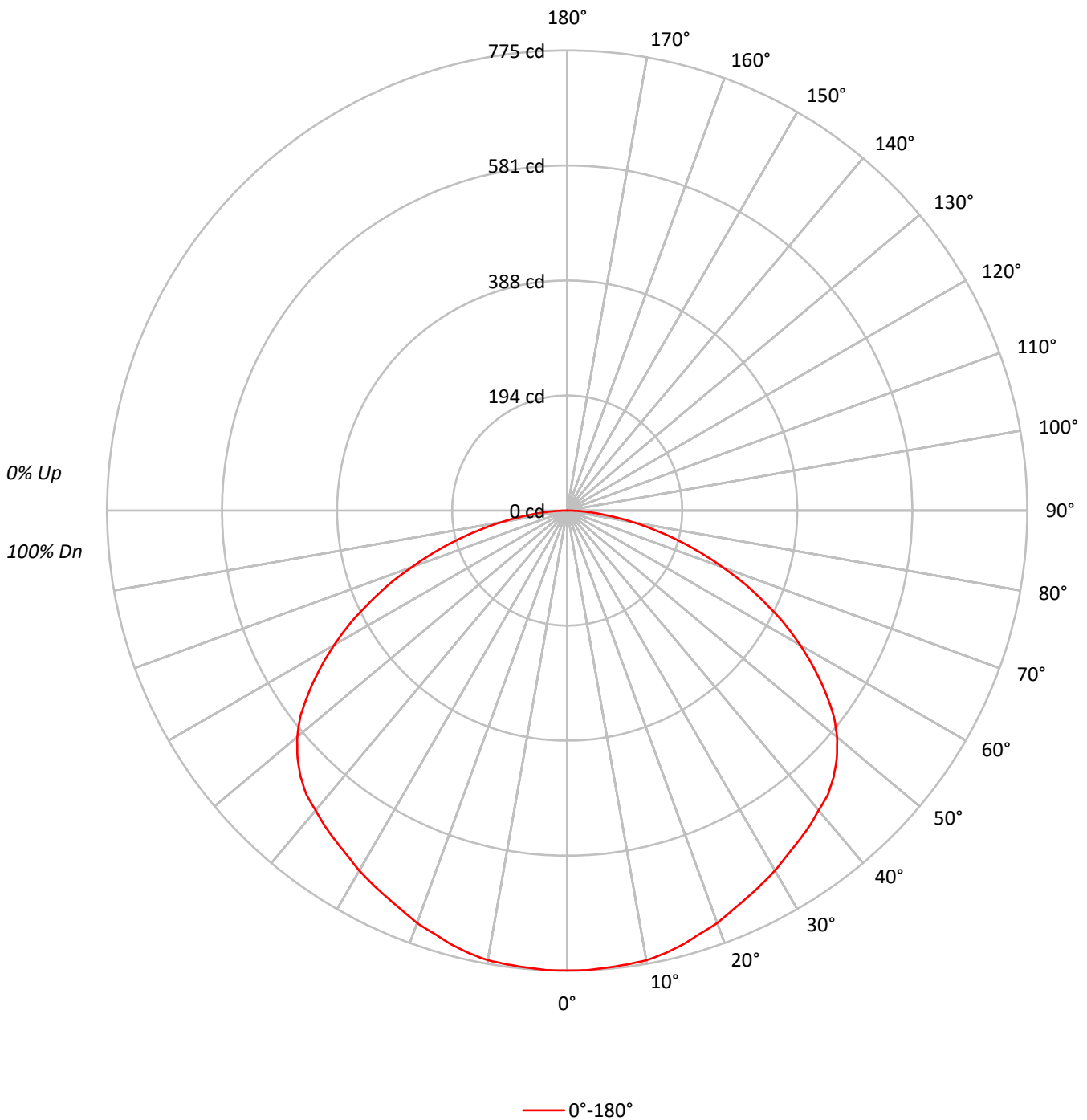
Lumens per Lamp: N/A
Luminaire Lumens: 2628.7 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6163
5°	6172
10°	6213
15°	6228
20°	6259
25°	6309
30°	6431
35°	6599
40°	6844
45°	7141
50°	7347
55°	7354
60°	7217
65°	6924
70°	6471
75°	5911
80°	5131
85°	4089

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7392 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	2.8
10°-20°	213.6	8.1
20°-30°	332.3	12.6
30°-40°	426.4	16.2
40°-50°	488.5	18.6
50°-60°	472.5	18.0
60°-70°	364.0	13.8
70°-80°	204.0	7.8
80°-90°	53.8	2.0
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°	619.5	23.6
0°-40°	1045.9	39.8
0°-60°	2007.0	76.3
0°-90°	2628.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	775	
5°	773	74
15°	756	214
25°	719	332
35°	680	426
45°	635	488
55°	530	473
65°	368	364
75°	192	204
85°	45	54
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	774.7
2.5°	774.7
5°	772.9
7.5°	771.0
10°	769.1
12.5°	763.5
15°	756.1
17.5°	746.7
20°	739.3
22.5°	728.1
25°	718.7
27.5°	709.4
30°	700.1
32.5°	688.9
35°	679.5
37.5°	670.2
40°	659.0
42.5°	649.7
45°	634.7
47.5°	616.0
50°	593.6
52.5°	565.6
55°	530.2
57.5°	492.8
60°	453.6
62.5°	412.6
65°	367.8
67.5°	324.8
70°	278.2
72.5°	235.2
75°	192.3
77.5°	151.2
80°	112.0
82.5°	76.5
85°	44.8
87.5°	20.5
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	19.43	21.13	19.80	21.45	21.76	19.43	21.13	19.80	21.45	21.76
	3H	21.24	22.79	21.62	23.11	23.47	21.24	22.79	21.62	23.11	23.47
	4H	21.90	23.35	22.29	23.70	24.07	21.90	23.35	22.29	23.70	24.07
	6H	22.36	23.71	22.77	24.07	24.46	22.36	23.71	22.77	24.07	24.46
	8H	22.50	23.79	22.92	24.18	24.58	22.50	23.79	22.92	24.18	24.58
	12H	22.59	23.83	23.01	24.21	24.64	22.59	23.83	23.01	24.21	24.64
4H	2H	20.09	21.54	20.48	21.89	22.26	20.09	21.54	20.48	21.89	22.26
	3H	22.10	23.33	22.51	23.73	24.13	22.10	23.33	22.51	23.73	24.13
	4H	22.88	23.99	23.31	24.40	24.84	22.88	23.99	23.31	24.40	24.84
	6H	23.47	24.44	23.92	24.88	25.33	23.47	24.44	23.92	24.88	25.33
	8H	23.65	24.56	24.11	25.00	25.47	23.65	24.56	24.11	25.00	25.47
	12H	23.78	24.60	24.26	25.07	25.54	23.78	24.60	24.26	25.07	25.54
8H	4H	23.19	24.10	23.65	24.54	25.01	23.19	24.10	23.65	24.54	25.01
	6H	23.89	24.65	24.38	25.13	25.61	23.89	24.65	24.38	25.13	25.61
	8H	24.14	24.82	24.64	25.32	25.81	24.14	24.82	24.64	25.32	25.81
	12H	24.33	24.93	24.83	25.42	25.98	24.33	24.93	24.83	25.42	25.98
12H	4H	23.23	24.05	23.70	24.52	24.99	23.23	24.05	23.70	24.52	24.99
	6H	23.94	24.62	24.45	25.13	25.61	23.94	24.62	24.45	25.13	25.61
	8H	24.24	24.85	24.75	25.34	25.89	24.24	24.85	24.75	25.34	25.89