

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: P866333

Luminaire Tested: PRLX-2002-M-935-75L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866333
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-935-75L-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 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

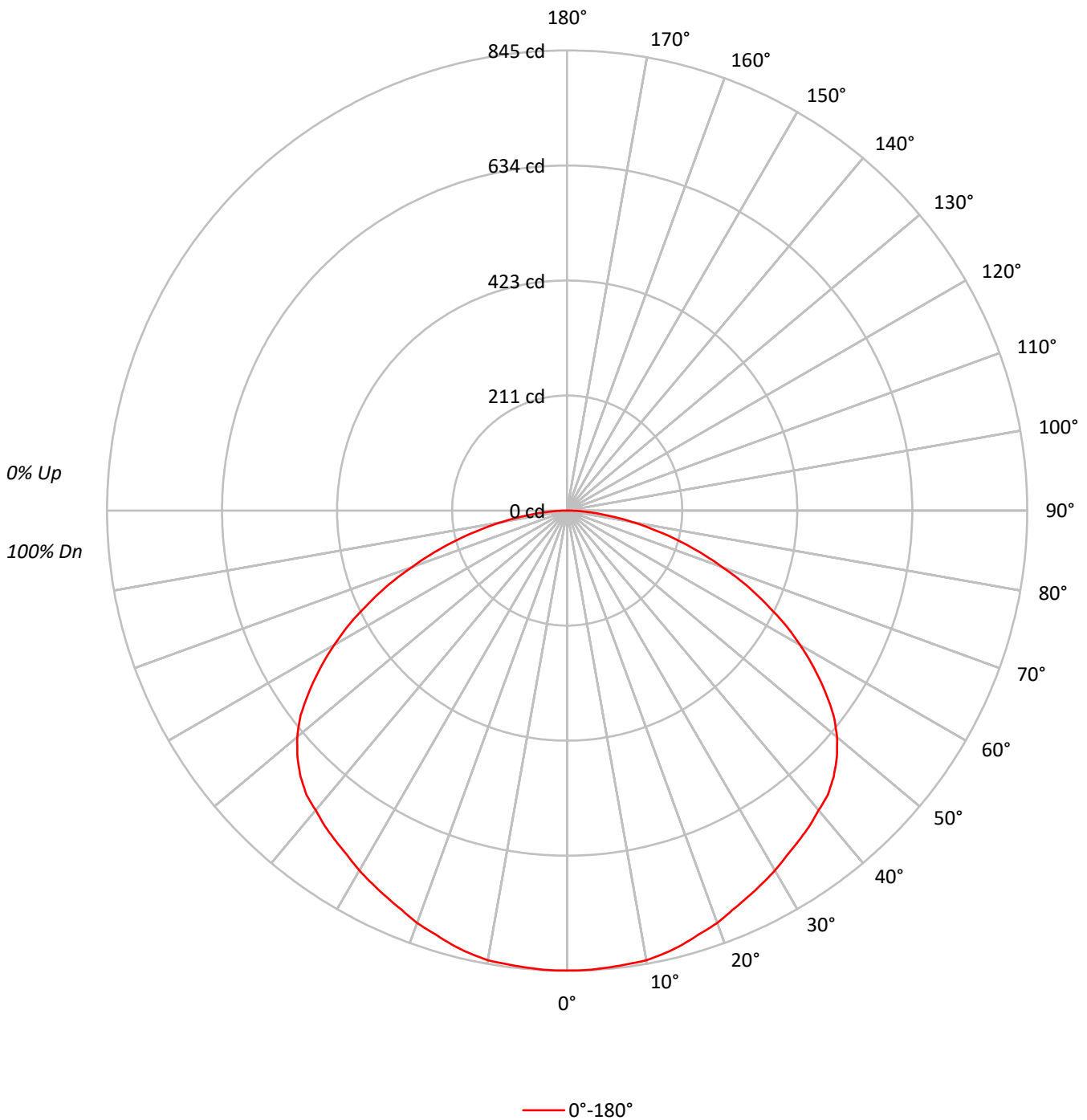
Lumens per Lamp: N/A
Luminaire Lumens: 2865.7 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	6719
5°	6729
10°	6774
15°	6788
20°	6823
25°	6878
30°	7011
35°	7195
40°	7461
45°	7786
50°	8010
55°	8017
60°	7868
65°	7547
70°	7053
75°	6443
80°	5594
85°	4455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 8060 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	2.8
10°-20°	232.9	8.1
20°-30°	362.2	12.6
30°-40°	464.8	16.2
40°-50°	532.6	18.6
50°-60°	515.2	18.0
60°-70°	396.7	13.8
70°-80°	222.4	7.8
80°-90°	58.7	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°	675.4	23.6
0°-40°	1140.2	39.8
0°-60°	2188.0	76.3
0°-90°	2865.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2865.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	845	
5°	843	80
15°	824	233
25°	784	362
35°	741	465
45°	692	533
55°	578	515
65°	401	397
75°	210	222
85°	49	59
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	844.6
2.5°	844.6
5°	842.6
7.5°	840.5
10°	838.5
12.5°	832.4
15°	824.2
17.5°	814.1
20°	805.9
22.5°	793.7
25°	783.5
27.5°	773.4
30°	763.2
32.5°	751.0
35°	740.8
37.5°	730.6
40°	718.4
42.5°	708.2
45°	692.0
47.5°	671.6
50°	647.2
52.5°	616.7
55°	578.0
57.5°	537.3
60°	494.5
62.5°	449.8
65°	400.9
67.5°	354.1
70°	303.2
72.5°	256.4
75°	209.6
77.5°	164.8
80°	122.1
82.5°	83.4
85°	48.8
87.5°	22.4
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	19.73	21.44	20.10	21.75	22.06	19.73	21.44	20.10	21.75	22.06
	3H	21.54	23.09	21.92	23.41	23.77	21.54	23.09	21.92	23.41	23.77
	4H	22.20	23.65	22.59	24.00	24.37	22.20	23.65	22.59	24.00	24.37
	6H	22.66	24.01	23.07	24.37	24.76	22.66	24.01	23.07	24.37	24.76
	8H	22.80	24.09	23.22	24.48	24.88	22.80	24.09	23.22	24.48	24.88
	12H	22.89	24.13	23.31	24.51	24.93	22.89	24.13	23.31	24.51	24.93
4H	2H	20.39	21.84	20.78	22.19	22.56	20.39	21.84	20.78	22.19	22.56
	3H	22.40	23.63	22.81	24.03	24.42	22.40	23.63	22.81	24.03	24.42
	4H	23.18	24.29	23.61	24.70	25.14	23.18	24.29	23.61	24.70	25.14
	6H	23.77	24.74	24.22	25.18	25.63	23.77	24.74	24.22	25.18	25.63
	8H	23.95	24.86	24.41	25.30	25.77	23.95	24.86	24.41	25.30	25.77
	12H	24.08	24.90	24.56	25.37	25.84	24.08	24.90	24.56	25.37	25.84
8H	4H	23.49	24.40	23.95	24.84	25.31	23.49	24.40	23.95	24.84	25.31
	6H	24.19	24.95	24.68	25.43	25.91	24.19	24.95	24.68	25.43	25.91
	8H	24.44	25.12	24.94	25.62	26.11	24.44	25.12	24.94	25.62	26.11
	12H	24.63	25.23	25.13	25.72	26.28	24.63	25.23	25.13	25.72	26.28
12H	4H	23.53	24.35	24.00	24.82	25.29	23.53	24.35	24.00	24.82	25.29
	6H	24.24	24.92	24.75	25.43	25.91	24.24	24.92	24.75	25.43	25.91
	8H	24.54	25.15	25.05	25.64	26.19	24.54	25.15	25.05	25.64	26.19