

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: P866165

Luminaire Tested: PRLX-2002-M-927-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866165
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: Pentalux
Catalog Number: PRLX-2002-M-927-25L-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 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

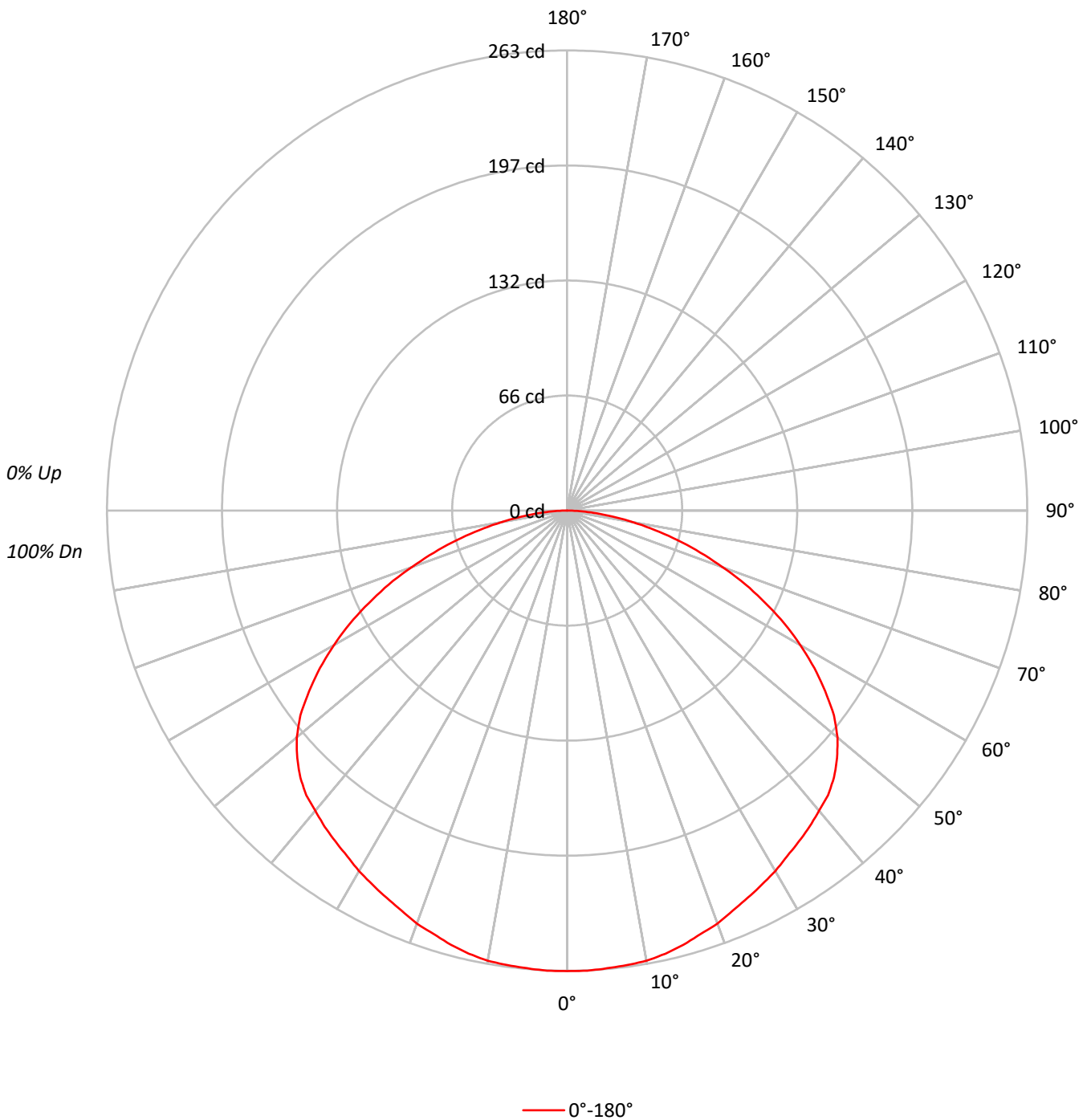
Lumens per Lamp: N/A
Luminaire Lumens: 893.2 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	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°	2094
5°	2097
10°	2111
15°	2116
20°	2127
25°	2144
30°	2185
35°	2243
40°	2325
45°	2427
50°	2496
55°	2498
60°	2452
65°	2353
70°	2198
75°	2007
80°	1746
85°	1387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2512 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	2.8
10°-20°	72.6	8.1
20°-30°	112.9	12.6
30°-40°	144.9	16.2
40°-50°	166.0	18.6
50°-60°	160.6	18.0
60°-70°	123.7	13.8
70°-80°	69.3	7.8
80°-90°	18.3	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°	210.5	23.6
0°-40°	355.4	39.8
0°-60°	681.9	76.3
0°-90°	893.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	263	
5°	263	25
15°	257	73
25°	244	113
35°	231	145
45°	216	166
55°	180	161
65°	125	124
75°	65	69
85°	15	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	263.2
2.5°	263.2
5°	262.6
7.5°	262.0
10°	261.3
12.5°	259.4
15°	256.9
17.5°	253.7
20°	251.2
22.5°	247.4
25°	244.2
27.5°	241.0
30°	237.9
32.5°	234.1
35°	230.9
37.5°	227.7
40°	223.9
42.5°	220.7
45°	215.7
47.5°	209.3
50°	201.7
52.5°	192.2
55°	180.1
57.5°	167.5
60°	154.1
62.5°	140.2
65°	125.0
67.5°	110.4
70°	94.5
72.5°	79.9
75°	65.3
77.5°	51.4
80°	38.1
82.5°	26.0
85°	15.2
87.5°	7.0
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	15.68	17.39	16.05	17.70	18.02	15.68	17.39	16.05	17.70	18.02
	3H	17.49	19.04	17.87	19.36	19.72	17.49	19.04	17.87	19.36	19.72
	4H	18.15	19.60	18.54	19.95	20.32	18.15	19.60	18.54	19.95	20.32
	6H	18.61	19.96	19.02	20.32	20.71	18.61	19.96	19.02	20.32	20.71
	8H	18.75	20.04	19.17	20.43	20.83	18.75	20.04	19.17	20.43	20.83
	12H	18.84	20.08	19.26	20.46	20.89	18.84	20.08	19.26	20.46	20.89
4H	2H	16.34	17.79	16.73	18.14	18.51	16.34	17.79	16.73	18.14	18.51
	3H	18.36	19.58	18.76	19.98	20.38	18.36	19.58	18.76	19.98	20.38
	4H	19.13	20.24	19.56	20.65	21.09	19.13	20.24	19.56	20.65	21.09
	6H	19.72	20.69	20.17	21.13	21.58	19.72	20.69	20.17	21.13	21.58
	8H	19.90	20.81	20.36	21.25	21.72	19.90	20.81	20.36	21.25	21.72
	12H	20.03	20.85	20.51	21.32	21.79	20.03	20.85	20.51	21.32	21.79
8H	4H	19.44	20.35	19.90	20.79	21.26	19.44	20.35	19.90	20.79	21.26
	6H	20.14	20.90	20.63	21.38	21.86	20.14	20.90	20.63	21.38	21.86
	8H	20.39	21.07	20.90	21.57	22.06	20.39	21.07	20.90	21.57	22.06
	12H	20.58	21.18	21.09	21.67	22.23	20.58	21.18	21.09	21.67	22.23
12H	4H	19.48	20.30	19.95	20.77	21.24	19.48	20.30	19.95	20.77	21.24
	6H	20.19	20.87	20.70	21.38	21.86	20.19	20.87	20.70	21.38	21.86
	8H	20.50	21.10	21.00	21.59	22.15	20.50	21.10	21.00	21.59	22.15