

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: P865873

Luminaire Tested: PRLX-2004-S-940-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

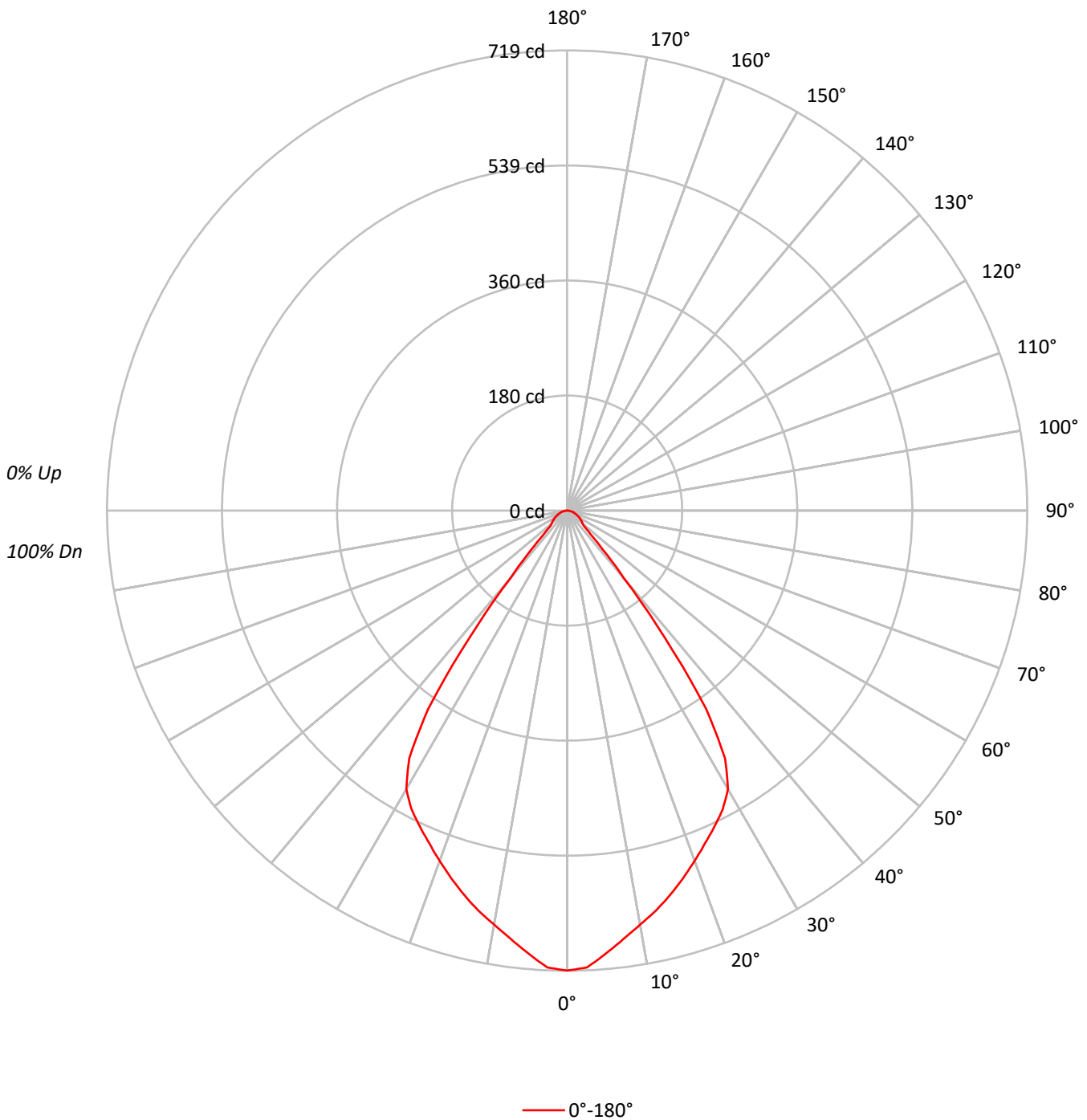
Lumens per Lamp: N/A
Luminaire Lumens: 809.3 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77				77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70				70
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65				65
6	84	74	68	63	83	74	67	63	72	67	62	71	66	62	69	65	62	60				60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56				56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52				52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48				48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45				45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11722
5°	11376
10°	10879
15°	10499
20°	10110
25°	9801
30°	9464
35°	7546
40°	2930
45°	1165
50°	784
55°	759
60°	734
65°	648
70°	601
75°	618
80°	526
85°	524

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	8.0
10°-20°	174.9	21.6
20°-30°	250.8	31.0
30°-40°	216.6	26.8
40°-50°	47.6	5.9
50°-60°	23.9	2.9
60°-70°	17.2	2.1
70°-80°	10.2	1.3
80°-90°	3.0	0.4
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°	490.9	60.7
0°-40°	707.5	87.4
0°-60°	778.9	96.2
0°-90°	809.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	719	
5°	695	65
15°	622	175
25°	545	251
35°	379	217
45°	50	48
55°	27	24
65°	17	17
75°	10	10
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	718.7
2.5°	714.4
5°	694.8
7.5°	675.1
10°	656.9
12.5°	640.1
15°	621.8
17.5°	602.2
20°	582.5
22.5°	562.9
25°	544.6
27.5°	526.4
30°	502.5
32.5°	459.0
35°	379.0
37.5°	251.3
40°	137.6
42.5°	81.4
45°	50.5
47.5°	35.1
50°	30.9
52.5°	29.5
55°	26.7
57.5°	23.9
60°	22.5
62.5°	19.7
65°	16.8
67.5°	15.4
70°	12.6
72.5°	11.2
75°	9.8
77.5°	8.4
80°	5.6
82.5°	4.2
85°	2.8
87.5°	1.4
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	5.81	6.88	6.18	7.19	7.51	5.81	6.88	6.18	7.19	7.51
	3H	7.43	8.37	7.81	8.70	9.07	7.43	8.37	7.81	8.70	9.07
	4H	8.10	8.98	8.51	9.33	9.72	8.10	8.98	8.51	9.33	9.72
	6H	8.63	9.44	9.05	9.81	10.21	8.63	9.44	9.05	9.81	10.21
	8H	8.78	9.53	9.21	9.93	10.33	8.78	9.53	9.21	9.93	10.33
	12H	8.88	9.60	9.32	9.99	10.42	8.88	9.60	9.32	9.99	10.42
4H	2H	6.28	7.15	6.68	7.50	7.89	6.28	7.15	6.68	7.50	7.89
	3H	8.10	8.82	8.52	9.22	9.63	8.10	8.82	8.52	9.22	9.63
	4H	8.93	9.57	9.36	9.99	10.44	8.93	9.57	9.36	9.99	10.44
	6H	9.59	10.14	10.06	10.59	11.06	9.59	10.14	10.06	10.59	11.06
	8H	9.77	10.29	10.25	10.74	11.21	9.77	10.29	10.25	10.74	11.21
	12H	9.92	10.37	10.41	10.85	11.33	9.92	10.37	10.41	10.85	11.33
8H	4H	9.20	9.71	9.67	10.16	10.63	9.20	9.71	9.67	10.16	10.63
	6H	9.97	10.38	10.48	10.88	11.37	9.97	10.38	10.48	10.88	11.37
	8H	10.24	10.60	10.77	11.12	11.62	10.24	10.60	10.77	11.12	11.62
	12H	10.48	10.80	11.00	11.30	11.87	10.48	10.80	11.00	11.30	11.87
12H	4H	9.20	9.64	9.69	10.13	10.61	9.20	9.64	9.69	10.13	10.61
	6H	10.00	10.37	10.54	10.89	11.39	10.00	10.37	10.54	10.89	11.39
	8H	10.33	10.65	10.85	11.15	11.73	10.33	10.65	10.85	11.15	11.73