

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: P865548

Luminaire Tested: PRLX-2001-S-940-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-15L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

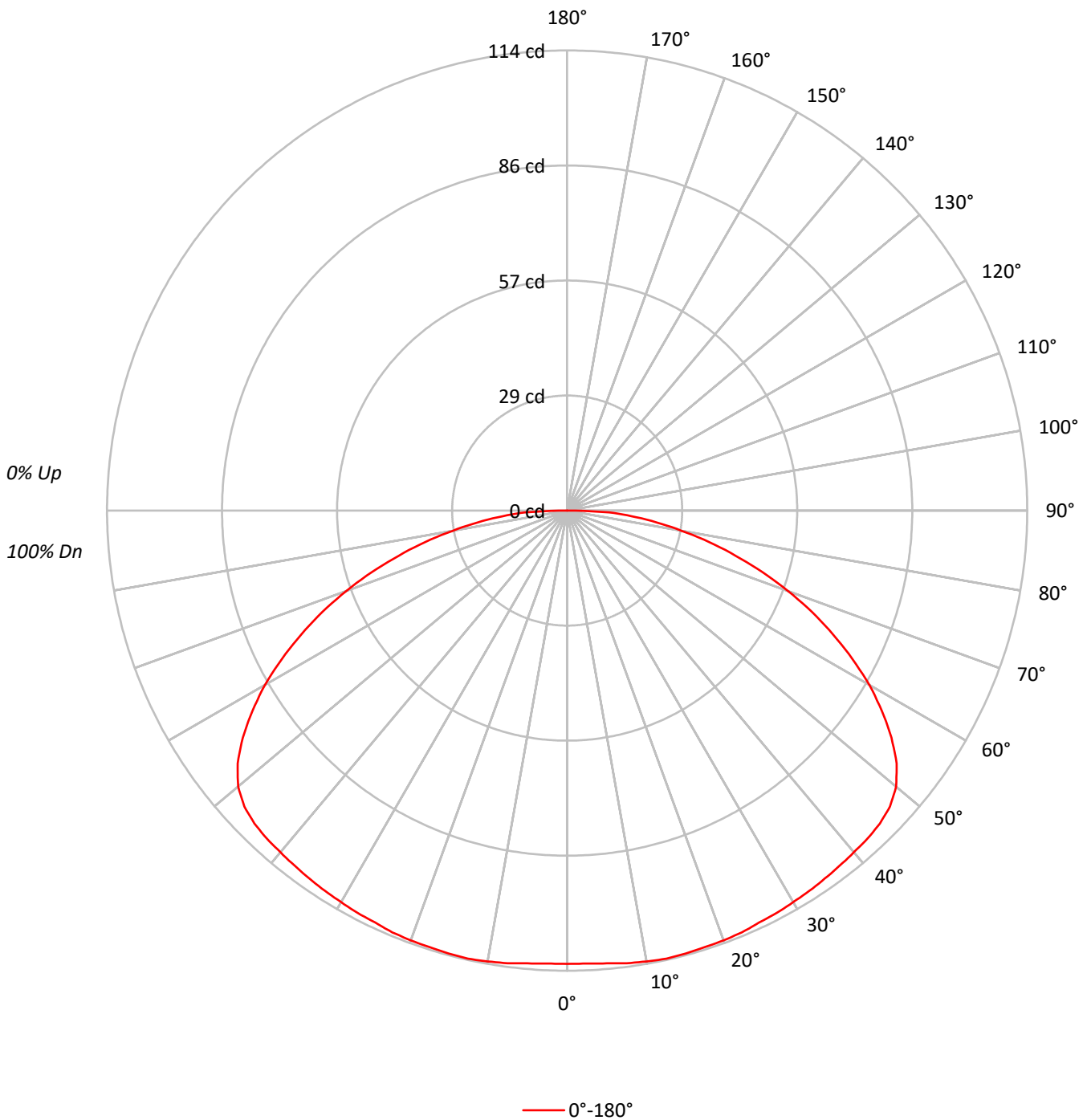
Lumens per Lamp: N/A
Luminaire Lumens: 471.6 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	68	75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47	59	52	47	57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35	47	40	34	45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30	43	35	30	41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1832
5°	1844
10°	1878
15°	1918
20°	1967
25°	2026
30°	2109
35°	2216
40°	2353
45°	2528
50°	2700
55°	2790
60°	2822
65°	2806
70°	2775
75°	2722
80°	2705
85°	2994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	2.3
10°-20°	32.2	6.8
20°-30°	52.1	11.1
30°-40°	69.9	14.8
40°-50°	84.5	17.9
50°-60°	87.3	18.5
60°-70°	71.9	15.2
70°-80°	45.8	9.7
80°-90°	17.2	3.6
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°	95.1	20.2
0°-40°	165.0	35.0
0°-60°	336.8	71.4
0°-90°	471.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	112	
5°	113	11
15°	114	32
25°	113	52
35°	111	70
45°	110	85
55°	98	87
65°	73	72
75°	43	46
85°	16	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	112.3
2.5°	112.3
5°	112.6
7.5°	113.1
10°	113.4
12.5°	113.7
15°	113.6
17.5°	113.4
20°	113.3
22.5°	113.1
25°	112.6
27.5°	112.4
30°	112.0
32.5°	111.7
35°	111.3
37.5°	110.9
40°	110.5
42.5°	110.2
45°	109.6
47.5°	108.5
50°	106.4
52.5°	102.9
55°	98.1
57.5°	92.5
60°	86.5
62.5°	79.7
65°	72.7
67.5°	65.7
70°	58.2
72.5°	50.7
75°	43.2
77.5°	36.1
80°	28.8
82.5°	22.3
85°	16.0
87.5°	10.4
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	16.19	17.96	16.56	18.28	18.59	16.19	17.96	16.56	18.28	18.59
	3H	18.27	19.89	18.65	20.21	20.57	18.27	19.89	18.65	20.21	20.57
	4H	19.10	20.63	19.50	20.98	21.35	19.10	20.63	19.50	20.98	21.35
	6H	19.80	21.22	20.21	21.58	21.97	19.80	21.22	20.21	21.58	21.97
	8H	20.07	21.44	20.49	21.82	22.22	20.07	21.44	20.49	21.82	22.22
	12H	20.31	21.62	20.74	22.00	22.43	20.31	21.62	20.74	22.00	22.43
4H	2H	16.92	18.45	17.32	18.79	19.16	16.92	18.45	17.32	18.79	19.16
	3H	19.23	20.52	19.63	20.92	21.32	19.23	20.52	19.63	20.92	21.32
	4H	20.20	21.38	20.63	21.79	22.23	20.20	21.38	20.63	21.79	22.23
	6H	21.05	22.09	21.50	22.53	22.97	21.05	22.09	21.50	22.53	22.97
	8H	21.39	22.37	21.84	22.81	23.27	21.39	22.37	21.84	22.81	23.27
	12H	21.70	22.59	22.18	23.06	23.52	21.70	22.59	22.18	23.06	23.52
8H	4H	20.61	21.59	21.07	22.03	22.49	20.61	21.59	21.07	22.03	22.49
	6H	21.61	22.44	22.10	22.92	23.39	21.61	22.44	22.10	22.92	23.39
	8H	22.06	22.80	22.56	23.30	23.79	22.06	22.80	22.56	23.30	23.79
	12H	22.50	23.15	23.00	23.64	24.19	22.50	23.15	23.00	23.64	24.19
12H	4H	20.68	21.56	21.15	22.04	22.50	20.68	21.56	21.15	22.04	22.50
	6H	21.72	22.46	22.22	22.96	23.44	21.72	22.46	22.22	22.96	23.44
	8H	22.25	22.91	22.75	23.39	23.95	22.25	22.91	22.75	23.39	23.95