

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: P867166

Luminaire Tested: PRLX-2002-L-940-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-83L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

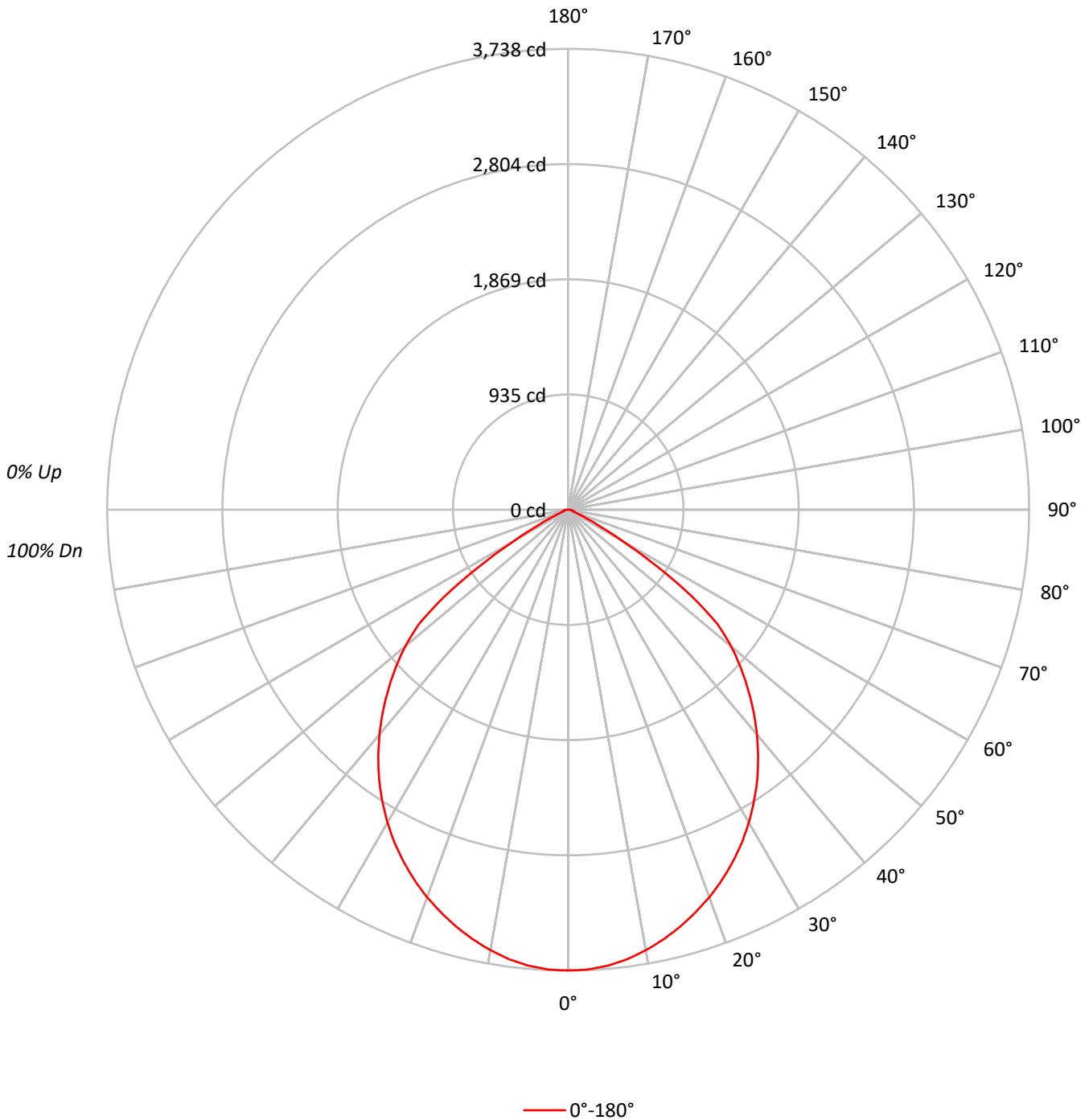
Lumens per Lamp: N/A
Luminaire Lumens: 7345.6 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18440
5°	18384
10°	18180
15°	17889
20°	17563
25°	17177
30°	16693
35°	16102
40°	15331
45°	14387
50°	13257
55°	10540
60°	4960
65°	1791
70°	690
75°	764
80°	875
85°	1047

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	4.8
10°-20°	987.0	13.4
20°-30°	1451.7	19.8
30°-40°	1667.9	22.7
40°-50°	1588.6	21.6
50°-60°	1044.7	14.2
60°-70°	192.9	2.6
70°-80°	42.1	0.6
80°-90°	18.9	0.3
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°	2790.4	38.0
0°-40°	4458.3	60.7
0°-60°	7091.6	96.5
0°-90°	7345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7345.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3738	
5°	3712	352
15°	3502	987
25°	3155	1452
35°	2673	1668
45°	2062	1589
55°	1225	1045
65°	153	193
75°	40	42
85°	18	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3737.5
2.5°	3733.6
5°	3712.0
7.5°	3677.3
10°	3628.7
12.5°	3569.4
15°	3502.3
17.5°	3426.7
20°	3345.0
22.5°	3254.0
25°	3155.3
27.5°	3047.3
30°	2930.1
32.5°	2804.4
35°	2673.4
37.5°	2529.9
40°	2380.3
42.5°	2226.9
45°	2061.9
47.5°	1898.4
50°	1727.2
52.5°	1526.8
55°	1225.3
57.5°	839.7
60°	502.7
62.5°	283.0
65°	153.4
67.5°	77.1
70°	47.8
72.5°	44.0
75°	40.1
77.5°	36.2
80°	30.8
82.5°	25.4
85°	18.5
87.5°	10.0
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	18.12	19.52	18.48	19.83	20.15	18.12	19.52	18.48	19.83	20.15
	3H	18.04	19.27	18.42	19.60	19.96	18.04	19.27	18.42	19.60	19.96
	4H	17.99	19.13	18.39	19.48	19.87	17.99	19.13	18.39	19.48	19.87
	6H	17.94	18.99	18.35	19.36	19.75	17.94	18.99	18.35	19.36	19.75
	8H	17.91	18.91	18.34	19.30	19.71	17.91	18.91	18.34	19.30	19.71
	12H	17.89	18.84	18.32	19.22	19.65	17.89	18.84	18.32	19.22	19.65
4H	2H	17.99	19.14	18.39	19.49	19.87	17.99	19.14	18.39	19.49	19.87
	3H	17.92	18.85	18.34	19.25	19.65	17.92	18.85	18.34	19.25	19.65
	4H	17.87	18.69	18.31	19.11	19.56	17.87	18.69	18.31	19.11	19.56
	6H	17.84	18.55	18.30	19.00	19.46	17.84	18.55	18.30	19.00	19.46
	8H	17.81	18.48	18.28	18.92	19.39	17.81	18.48	18.28	18.92	19.39
	12H	17.79	18.38	18.28	18.86	19.34	17.79	18.38	18.28	18.86	19.34
8H	4H	17.76	18.42	18.23	18.87	19.34	17.76	18.42	18.23	18.87	19.34
	6H	17.72	18.27	18.22	18.76	19.24	17.72	18.27	18.22	18.76	19.24
	8H	17.70	18.19	18.22	18.71	19.20	17.70	18.19	18.22	18.71	19.20
	12H	17.69	18.14	18.21	18.63	19.20	17.69	18.14	18.21	18.63	19.20
12H	4H	17.72	18.31	18.20	18.79	19.26	17.72	18.31	18.20	18.79	19.26
	6H	17.67	18.16	18.19	18.68	19.17	17.67	18.16	18.19	18.68	19.17
	8H	17.67	18.11	18.18	18.61	19.18	17.67	18.11	18.18	18.61	19.18