

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: P866383

Luminaire Tested: PRLX-2002-M-940-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-55L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

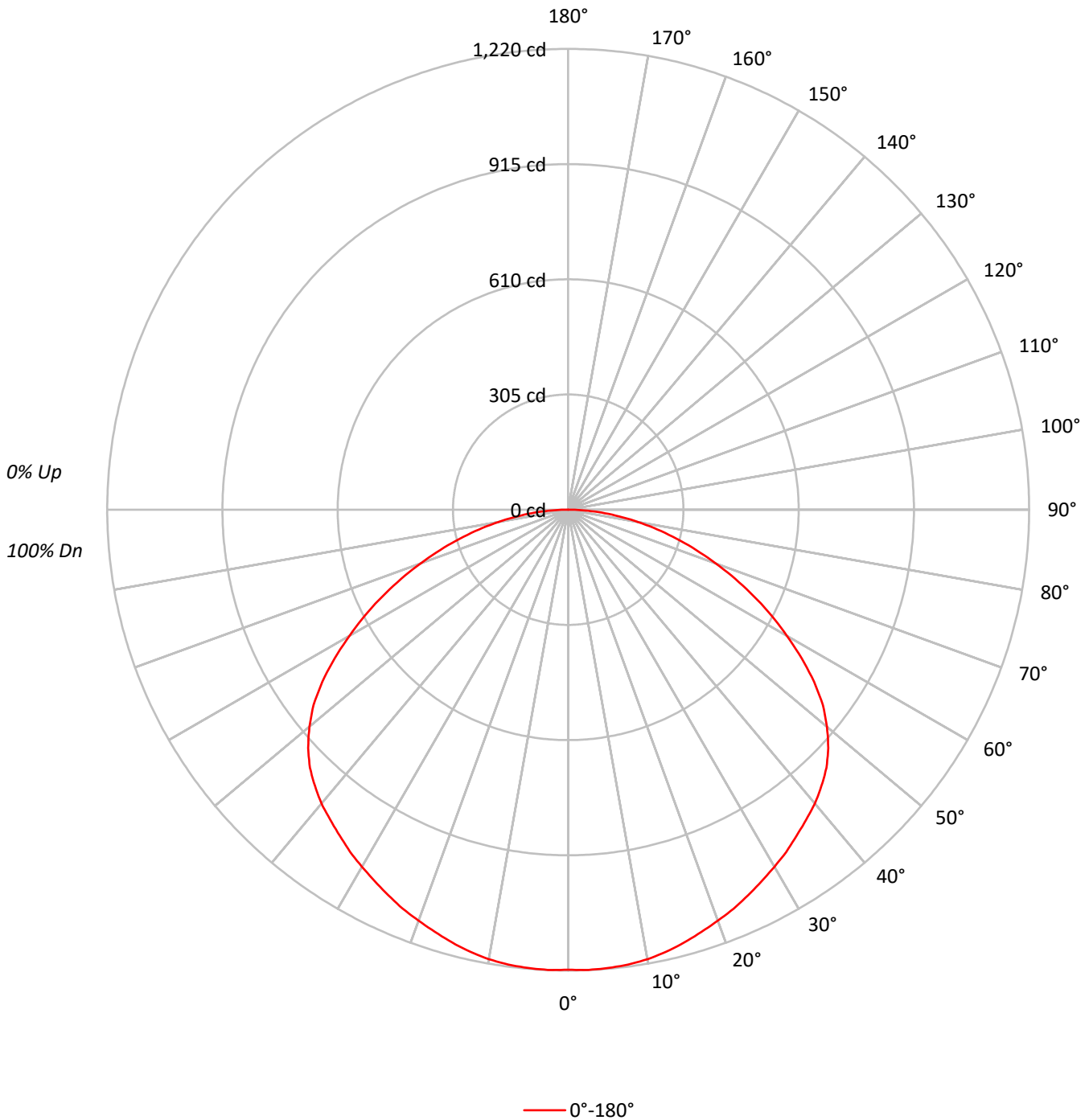
Lumens per Lamp: N/A
Luminaire Lumens: 4033.2 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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: 0.333 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	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
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	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9689
5°	9726
10°	9762
15°	9771
20°	9803
25°	9887
30°	10027
35°	10233
40°	10549
45°	10876
50°	11066
55°	11020
60°	10632
65°	10199
70°	9663
75°	9129
80°	8613
85°	8078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 11106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	2.9
10°-20°	335.2	8.3
20°-30°	520.2	12.9
30°-40°	661.2	16.4
40°-50°	743.6	18.4
50°-60°	706.4	17.5
60°-70°	536.6	13.3
70°-80°	315.4	7.8
80°-90°	98.6	2.4
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°	971.4	24.1
0°-40°	1632.5	40.5
0°-60°	3082.6	76.4
0°-90°	4033.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1218	
5°	1218	116
15°	1186	335
25°	1126	520
35°	1054	661
45°	967	744
55°	794	706
65°	542	537
75°	297	315
85°	88	99
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1217.9
2.5°	1219.5
5°	1217.9
7.5°	1214.7
10°	1208.4
12.5°	1198.9
15°	1186.3
17.5°	1172.1
20°	1157.9
22.5°	1143.6
25°	1126.3
27.5°	1108.9
30°	1091.5
32.5°	1074.1
35°	1053.6
37.5°	1034.6
40°	1015.7
42.5°	992.0
45°	966.7
47.5°	933.6
50°	894.1
52.5°	849.8
55°	794.5
57.5°	732.9
60°	668.2
62.5°	606.6
65°	541.8
67.5°	478.6
70°	415.4
72.5°	355.4
75°	297.0
77.5°	241.7
80°	188.0
82.5°	135.8
85°	88.5
87.5°	44.2
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	20.71	22.40	21.07	22.72	23.03	20.71	22.40	21.07	22.72	23.03
	3H	22.51	24.04	22.88	24.37	24.73	22.51	24.04	22.88	24.37	24.73
	4H	23.20	24.65	23.60	25.00	25.37	23.20	24.65	23.60	25.00	25.37
	6H	23.75	25.10	24.16	25.46	25.85	23.75	25.10	24.16	25.46	25.85
	8H	23.94	25.23	24.37	25.62	26.02	23.94	25.23	24.37	25.62	26.02
	12H	24.09	25.32	24.51	25.70	26.13	24.09	25.32	24.51	25.70	26.13
4H	2H	21.34	22.80	21.74	23.14	23.52	21.34	22.80	21.74	23.14	23.52
	3H	23.37	24.59	23.78	24.99	25.39	23.37	24.59	23.78	24.99	25.39
	4H	24.20	25.31	24.63	25.72	26.15	24.20	25.31	24.63	25.72	26.15
	6H	24.89	25.86	25.34	26.30	26.75	24.89	25.86	25.34	26.30	26.75
	8H	25.14	26.05	25.60	26.49	26.95	25.14	26.05	25.60	26.49	26.95
	12H	25.34	26.16	25.81	26.63	27.10	25.34	26.16	25.81	26.63	27.10
8H	4H	24.54	25.45	25.00	25.89	26.35	24.54	25.45	25.00	25.89	26.35
	6H	25.36	26.12	25.85	26.61	27.08	25.36	26.12	25.85	26.61	27.08
	8H	25.70	26.38	26.20	26.88	27.37	25.70	26.38	26.20	26.88	27.37
	12H	25.98	26.59	26.49	27.08	27.64	25.98	26.59	26.49	27.08	27.64
12H	4H	24.58	25.41	25.06	25.88	26.35	24.58	25.41	25.06	25.88	26.35
	6H	25.44	26.12	25.94	26.63	27.11	25.44	26.12	25.94	26.63	27.11
	8H	25.83	26.44	26.34	26.93	27.49	25.83	26.44	26.34	26.93	27.49