

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: P867163

Luminaire Tested: PRLX-2002-L-940-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

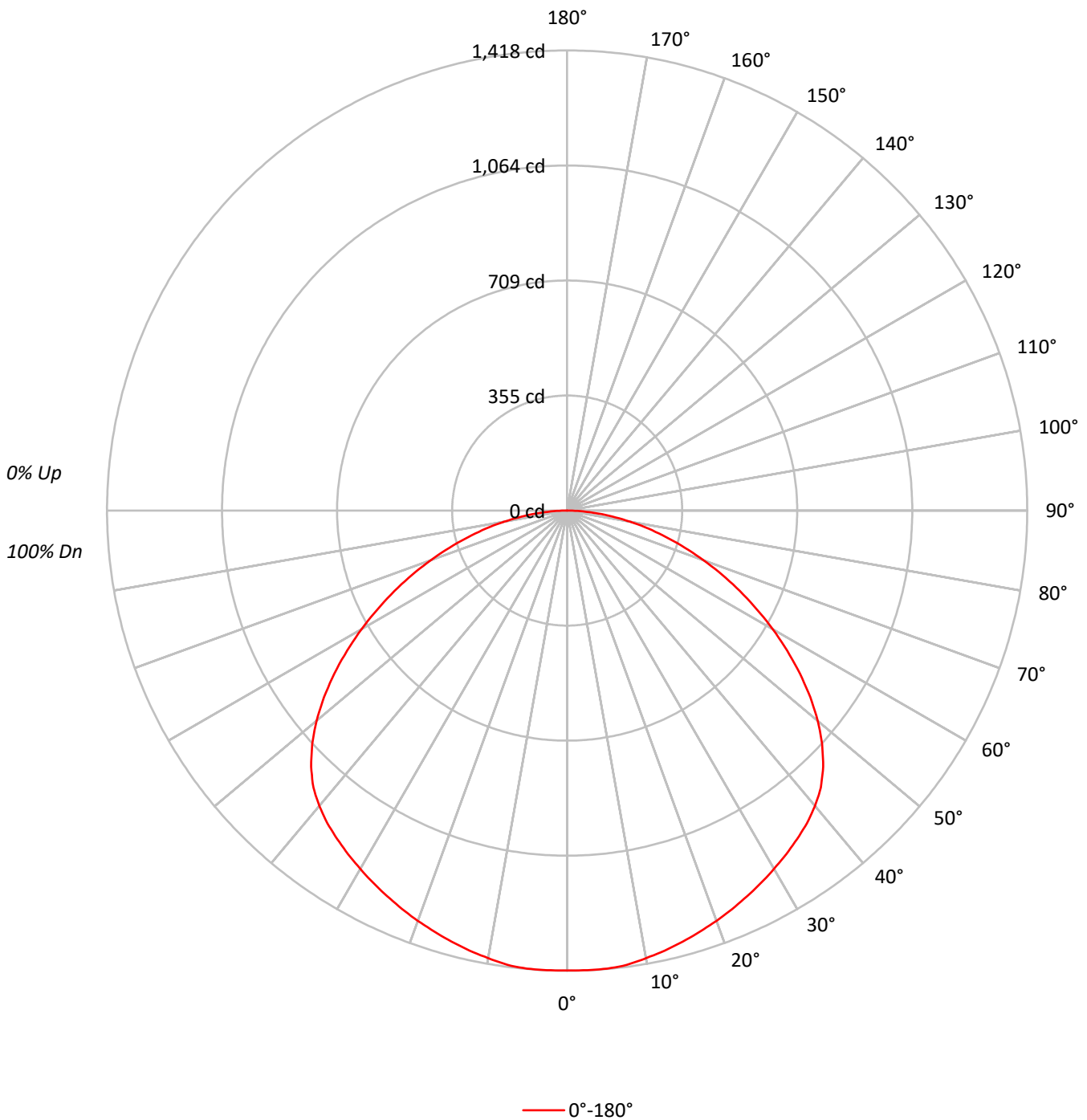
Lumens per Lamp: N/A
Luminaire Lumens: 4560.1 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6992
5°	7018
10°	7017
15°	7025
20°	7064
25°	7140
30°	7263
35°	7442
40°	7653
45°	7786
50°	7742
55°	7535
60°	7222
65°	6854
70°	6442
75°	6010
80°	5577
85°	4965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	3.0
10°-20°	388.8	8.5
20°-30°	605.9	13.3
30°-40°	774.3	17.0
40°-50°	857.2	18.8
50°-60°	781.3	17.1
60°-70°	582.1	12.8
70°-80°	336.0	7.4
80°-90°	99.6	2.2
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°	1129.5	24.8
0°-40°	1903.8	41.7
0°-60°	3542.3	77.7
0°-90°	4560.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4560.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1417	
5°	1417	135
15°	1375	389
25°	1312	606
35°	1236	774
45°	1116	857
55°	876	781
65°	587	582
75°	315	336
85°	88	100
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1417.1
2.5°	1417.7
5°	1417.1
7.5°	1412.2
10°	1400.6
12.5°	1388.9
15°	1375.4
17.5°	1360.7
20°	1345.4
22.5°	1328.8
25°	1311.6
27.5°	1293.8
30°	1274.8
32.5°	1255.8
35°	1235.5
37.5°	1214.1
40°	1188.3
42.5°	1157.6
45°	1115.9
47.5°	1065.6
50°	1008.6
52.5°	944.1
55°	876.0
57.5°	803.7
60°	731.9
62.5°	659.5
65°	587.1
67.5°	517.2
70°	446.6
72.5°	381.0
75°	315.3
77.5°	256.4
80°	196.3
82.5°	139.9
85°	87.7
87.5°	40.5
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	19.29	20.96	19.65	21.28	21.59	19.29	20.96	19.65	21.28	21.59
	3H	21.03	22.55	21.41	22.88	23.24	21.03	22.55	21.41	22.88	23.24
	4H	21.70	23.13	22.10	23.48	23.85	21.70	23.13	22.10	23.48	23.85
	6H	22.22	23.55	22.63	23.91	24.30	22.22	23.55	22.63	23.91	24.30
	8H	22.39	23.66	22.82	24.05	24.45	22.39	23.66	22.82	24.05	24.45
	12H	22.52	23.73	22.94	24.12	24.54	22.52	23.73	22.94	24.12	24.54
4H	2H	19.90	21.34	20.30	21.68	22.06	19.90	21.34	20.30	21.68	22.06
	3H	21.88	23.08	22.29	23.48	23.88	21.88	23.08	22.29	23.48	23.88
	4H	22.68	23.77	23.11	24.18	24.61	22.68	23.77	23.11	24.18	24.61
	6H	23.33	24.29	23.78	24.73	25.18	23.33	24.29	23.78	24.73	25.18
	8H	23.56	24.45	24.02	24.89	25.36	23.56	24.45	24.02	24.89	25.36
	12H	23.73	24.54	24.21	25.01	25.48	23.73	24.54	24.21	25.01	25.48
8H	4H	23.00	23.89	23.46	24.34	24.80	23.00	23.89	23.46	24.34	24.80
	6H	23.78	24.53	24.27	25.02	25.49	23.78	24.53	24.27	25.02	25.49
	8H	24.09	24.76	24.60	25.26	25.75	24.09	24.76	24.60	25.26	25.75
	12H	24.34	24.94	24.85	25.43	25.98	24.34	24.94	24.85	25.43	25.98
12H	4H	23.04	23.85	23.52	24.32	24.79	23.04	23.85	23.52	24.32	24.79
	6H	23.85	24.52	24.35	25.02	25.51	23.85	24.52	24.35	25.02	25.51
	8H	24.21	24.81	24.72	25.30	25.86	24.21	24.81	24.72	25.30	25.86