

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: P867155

Luminaire Tested: PRLX-2002-L-940-48L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867155
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-940-48L-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 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

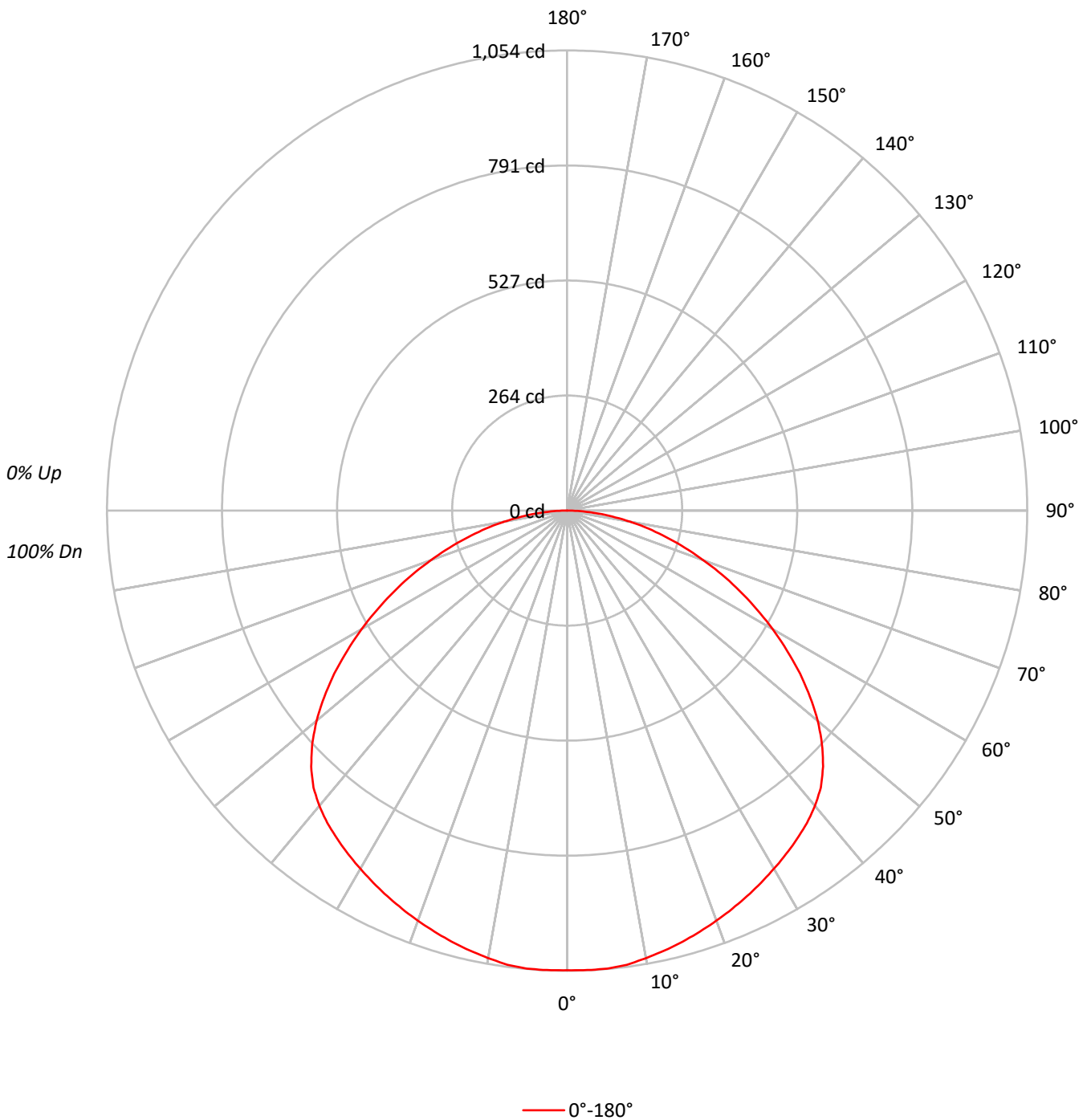
Lumens per Lamp: N/A
Luminaire Lumens: 3388.6 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867155

CATALOG NUMBER: PRLX-2002-L-940-48L-G-X-X-WHHR-X

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°	5196
5°	5216
10°	5214
15°	5221
20°	5249
25°	5306
30°	5397
35°	5530
40°	5687
45°	5786
50°	5752
55°	5600
60°	5366
65°	5094
70°	4788
75°	4466
80°	4145
85°	3691

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.0
10°-20°	288.9	8.5
20°-30°	450.2	13.3
30°-40°	575.4	17.0
40°-50°	637.0	18.8
50°-60°	580.6	17.1
60°-70°	432.6	12.8
70°-80°	249.7	7.4
80°-90°	74.0	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°	839.3	24.8
0°-40°	1414.7	41.7
0°-60°	2632.2	77.7
0°-90°	3388.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1053	
5°	1053	100
15°	1022	289
25°	975	450
35°	918	575
45°	829	637
55°	651	581
65°	436	433
75°	234	250
85°	65	74
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1053.1
2.5°	1053.5
5°	1053.1
7.5°	1049.4
10°	1040.7
12.5°	1032.1
15°	1022.1
17.5°	1011.1
20°	999.7
22.5°	987.4
25°	974.6
27.5°	961.4
30°	947.3
32.5°	933.2
35°	918.1
37.5°	902.2
40°	883.0
42.5°	860.2
45°	829.2
47.5°	791.8
50°	749.4
52.5°	701.6
55°	651.0
57.5°	597.2
60°	543.8
62.5°	490.1
65°	436.3
67.5°	384.3
70°	331.9
72.5°	283.1
75°	234.3
77.5°	190.6
80°	145.9
82.5°	103.9
85°	65.2
87.5°	30.1
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	18.25	19.93	18.62	20.24	20.56	18.25	19.93	18.62	20.24	20.56
	3H	20.00	21.52	20.38	21.85	22.21	20.00	21.52	20.38	21.85	22.21
	4H	20.67	22.10	21.07	22.45	22.82	20.67	22.10	21.07	22.45	22.82
	6H	21.19	22.52	21.60	22.88	23.27	21.19	22.52	21.60	22.88	23.27
	8H	21.36	22.63	21.78	23.02	23.42	21.36	22.63	21.78	23.02	23.42
	12H	21.48	22.70	21.91	23.08	23.51	21.48	22.70	21.91	23.08	23.51
4H	2H	18.87	20.31	19.27	20.65	21.03	18.87	20.31	19.27	20.65	21.03
	3H	20.85	22.05	21.26	22.45	22.85	20.85	22.05	21.26	22.45	22.85
	4H	21.65	22.74	22.08	23.15	23.58	21.65	22.74	22.08	23.15	23.58
	6H	22.30	23.26	22.75	23.70	24.15	22.30	23.26	22.75	23.70	24.15
	8H	22.53	23.42	22.99	23.86	24.33	22.53	23.42	22.99	23.86	24.33
	12H	22.70	23.51	23.18	23.98	24.45	22.70	23.51	23.18	23.98	24.45
8H	4H	21.97	22.86	22.43	23.30	23.77	21.97	22.86	22.43	23.30	23.77
	6H	22.75	23.50	23.24	23.98	24.46	22.75	23.50	23.24	23.98	24.46
	8H	23.06	23.73	23.56	24.23	24.72	23.06	23.73	23.56	24.23	24.72
	12H	23.31	23.90	23.81	24.39	24.95	23.31	23.90	23.81	24.39	24.95
12H	4H	22.01	22.82	22.49	23.29	23.76	22.01	22.82	22.49	23.29	23.76
	6H	22.82	23.49	23.32	23.99	24.48	22.82	23.49	23.32	23.99	24.48
	8H	23.18	23.78	23.69	24.27	24.83	23.18	23.78	23.69	24.27	24.83