

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: P866120

Luminaire Tested: PRLX-2001-M-940-45L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-45L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

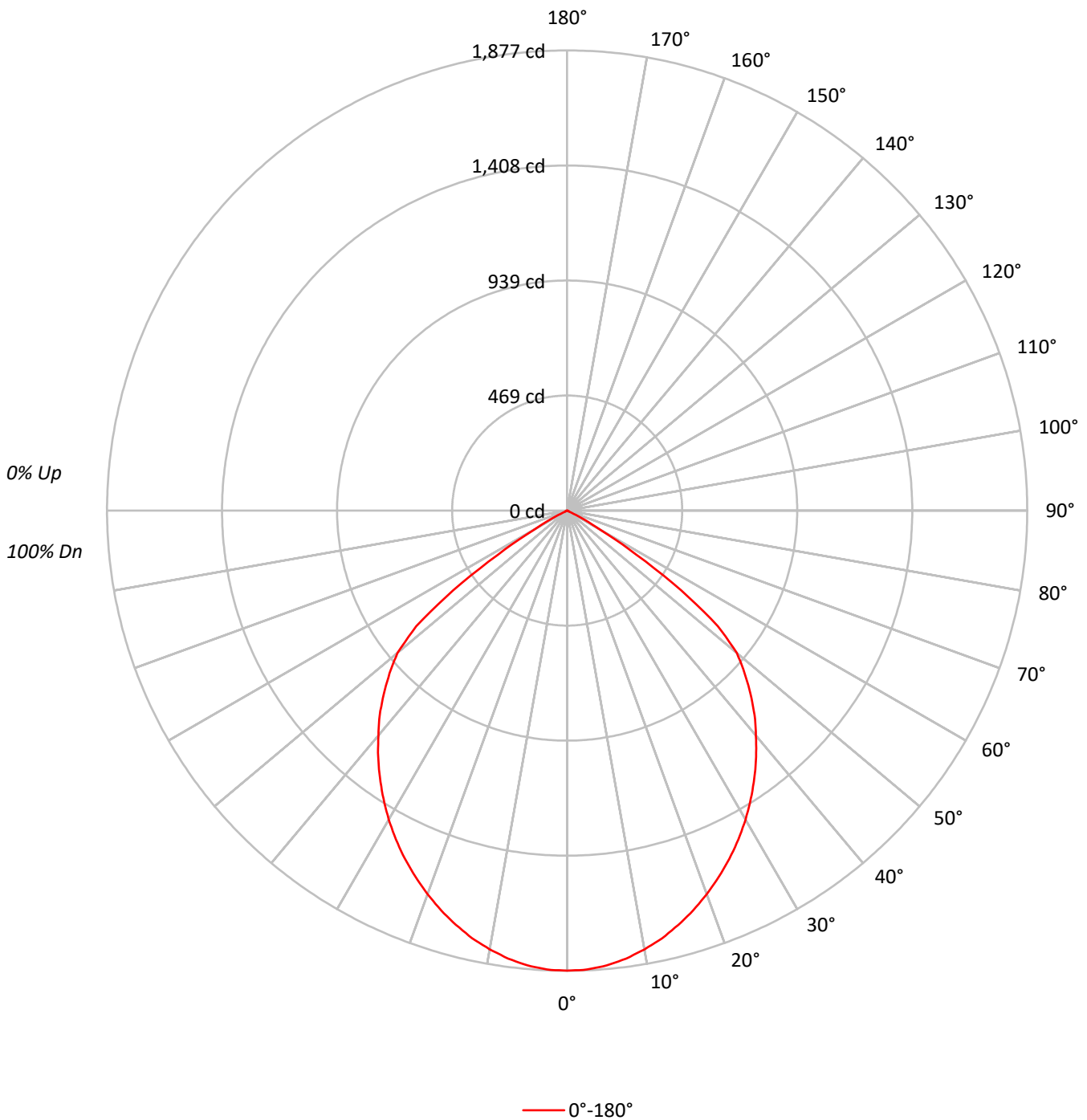
Lumens per Lamp: N/A
Luminaire Lumens: 3569.7 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15925
5°	15865
10°	15658
15°	15374
20°	15032
25°	14667
30°	14260
35°	13791
40°	13272
45°	12687
50°	11927
55°	8414
60°	2654
65°	181
70°	129
75°	128
80°	127
85°	127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12687 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	4.9
10°-20°	493.0	13.8
20°-30°	721.0	20.2
30°-40°	832.2	23.3
40°-50°	814.4	22.8
50°-60°	488.5	13.7
60°-70°	38.1	1.1
70°-80°	4.5	0.1
80°-90°	1.8	0.0
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°	1390.3	38.9
0°-40°	2222.5	62.3
0°-60°	3525.4	98.8
0°-90°	3569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3569.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1877	
5°	1862	176
15°	1750	493
25°	1566	721
35°	1331	832
45°	1057	814
55°	569	489
65°	9	38
75°	4	4
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1876.6
2.5°	1874.0
5°	1862.4
7.5°	1843.0
10°	1817.1
12.5°	1787.4
15°	1749.9
17.5°	1709.9
20°	1664.6
22.5°	1616.8
25°	1566.4
27.5°	1512.1
30°	1455.3
32.5°	1394.5
35°	1331.2
37.5°	1266.6
40°	1198.1
42.5°	1132.2
45°	1057.2
47.5°	982.2
50°	903.4
52.5°	775.4
55°	568.7
57.5°	334.7
60°	156.4
62.5°	62.0
65°	9.0
67.5°	5.2
70°	5.2
72.5°	5.2
75°	3.9
77.5°	3.9
80°	2.6
82.5°	2.6
85°	1.3
87.5°	1.3
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	16.08	17.46	16.45	17.77	18.08	16.08	17.46	16.45	17.77	18.08
	3H	15.96	17.17	16.34	17.49	17.86	15.96	17.17	16.34	17.49	17.86
	4H	15.89	17.01	16.29	17.36	17.74	15.89	17.01	16.29	17.36	17.74
	6H	15.82	16.84	16.23	17.21	17.61	15.82	16.84	16.23	17.21	17.61
	8H	15.78	16.75	16.21	17.14	17.54	15.78	16.75	16.21	17.14	17.54
	12H	15.74	16.66	16.17	17.04	17.47	15.74	16.66	16.17	17.04	17.47
4H	2H	15.89	17.01	16.29	17.36	17.74	15.89	17.01	16.29	17.36	17.74
	3H	15.77	16.67	16.19	17.07	17.47	15.77	16.67	16.19	17.07	17.47
	4H	15.69	16.48	16.12	16.90	17.35	15.69	16.48	16.12	16.90	17.35
	6H	15.61	16.29	16.07	16.74	17.21	15.61	16.29	16.07	16.74	17.21
	8H	15.55	16.19	16.02	16.64	17.11	15.55	16.19	16.02	16.64	17.11
	12H	15.51	16.07	15.99	16.56	17.03	15.51	16.07	15.99	16.56	17.03
8H	4H	15.55	16.19	16.02	16.64	17.11	15.55	16.19	16.02	16.64	17.11
	6H	15.45	15.97	15.95	16.47	16.95	15.45	15.97	15.95	16.47	16.95
	8H	15.38	15.86	15.90	16.37	16.87	15.38	15.86	15.90	16.37	16.87
	12H	15.33	15.76	15.84	16.26	16.83	15.33	15.76	15.84	16.26	16.83
12H	4H	15.50	16.07	15.99	16.55	17.03	15.50	16.07	15.99	16.55	17.03
	6H	15.38	15.86	15.90	16.37	16.86	15.38	15.86	15.90	16.37	16.86
	8H	15.33	15.76	15.84	16.25	16.82	15.33	15.76	15.84	16.25	16.82