

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: P866276

Luminaire Tested: PRLX-2002-M-935-07L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-07L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

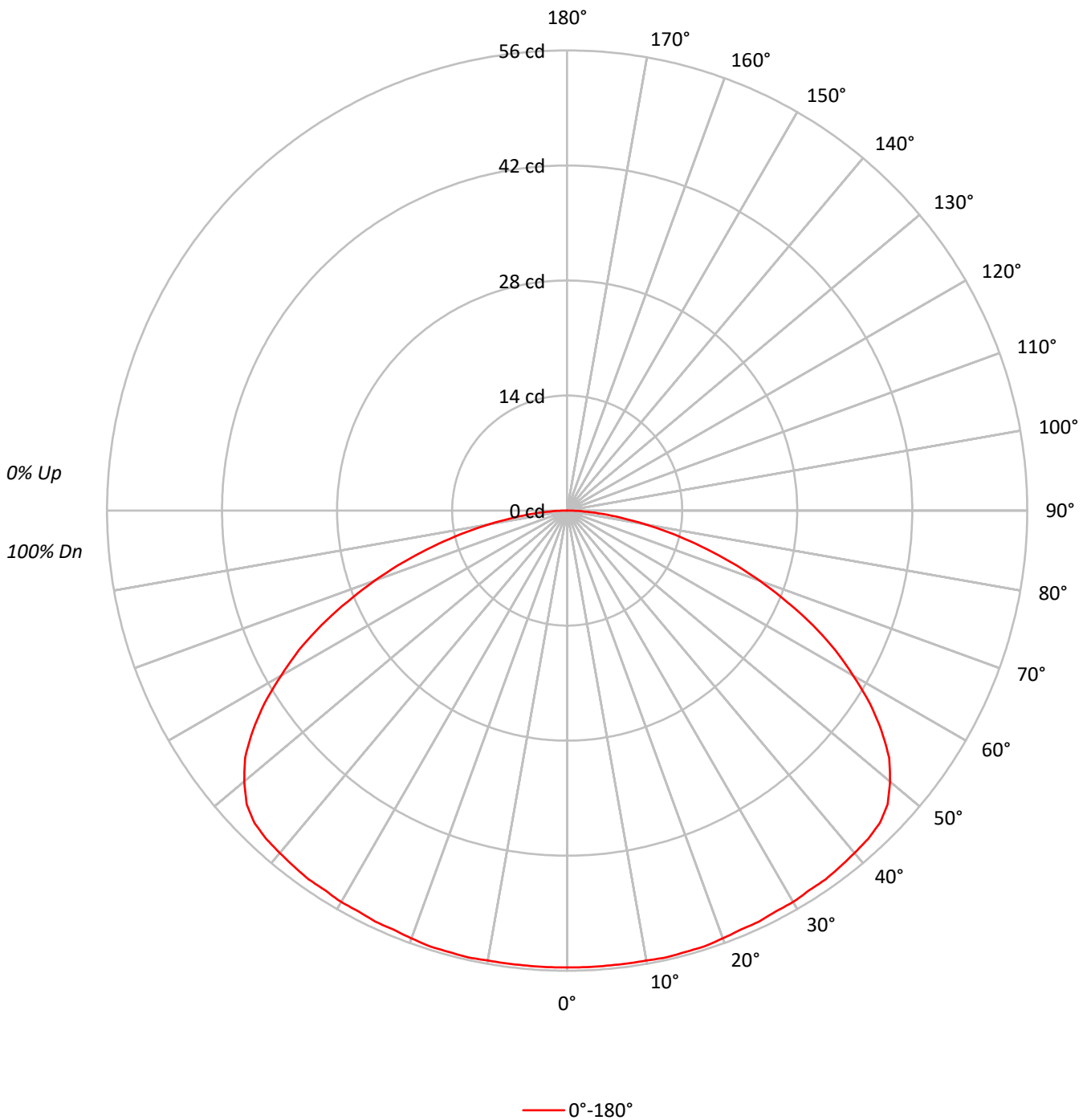
Lumens per Lamp: N/A
Luminaire Lumens: 218.9 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	42	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	442
5°	444
10°	449
15°	458
20°	469
25°	485
30°	505
35°	532
40°	565
45°	605
50°	635
55°	648
60°	640
65°	621
70°	579
75°	519
80°	440
85°	347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	2.4
10°-20°	15.8	7.2
20°-30°	25.5	11.7
30°-40°	34.4	15.7
40°-50°	41.4	18.9
50°-60°	41.5	19.0
60°-70°	32.5	14.8
70°-80°	18.0	8.2
80°-90°	4.6	2.1
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°	46.6	21.3
0°-40°	81.0	37.0
0°-60°	163.8	74.9
0°-90°	218.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	218.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	56	
5°	56	5
15°	56	16
25°	55	26
35°	55	34
45°	54	41
55°	47	42
65°	33	32
75°	17	18
85°	4	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	55.6
2.5°	55.6
5°	55.6
7.5°	55.6
10°	55.6
12.5°	55.7
15°	55.6
17.5°	55.6
20°	55.4
22.5°	55.2
25°	55.2
27.5°	55.0
30°	55.0
32.5°	54.8
35°	54.8
37.5°	54.6
40°	54.4
42.5°	54.2
45°	53.8
47.5°	52.9
50°	51.3
52.5°	49.4
55°	46.7
57.5°	43.7
60°	40.2
62.5°	36.8
65°	33.0
67.5°	28.9
70°	24.9
72.5°	20.9
75°	16.9
77.5°	13.2
80°	9.6
82.5°	6.5
85°	3.8
87.5°	1.7
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	11.19	12.93	11.56	13.24	13.55	11.19	12.93	11.56	13.24	13.55
	3H	13.02	14.60	13.40	14.92	15.28	13.02	14.60	13.40	14.92	15.28
	4H	13.67	15.15	14.06	15.50	15.87	13.67	15.15	14.06	15.50	15.87
	6H	14.11	15.49	14.52	15.85	16.24	14.11	15.49	14.52	15.85	16.24
	8H	14.24	15.56	14.66	15.95	16.35	14.24	15.56	14.66	15.95	16.35
	12H	14.32	15.59	14.75	15.97	16.40	14.32	15.59	14.75	15.97	16.40
4H	2H	11.86	13.35	12.26	13.70	14.07	11.86	13.35	12.26	13.70	14.07
	3H	13.90	15.15	14.31	15.55	15.95	13.90	15.15	14.31	15.55	15.95
	4H	14.66	15.80	15.09	16.21	16.64	14.66	15.80	15.09	16.21	16.64
	6H	15.22	16.22	15.67	16.66	17.11	15.22	16.22	15.67	16.66	17.11
	8H	15.39	16.33	15.85	16.77	17.23	15.39	16.33	15.85	16.77	17.23
	12H	15.51	16.36	15.99	16.83	17.30	15.51	16.36	15.99	16.83	17.30
8H	4H	14.97	15.90	15.43	16.35	16.81	14.97	15.90	15.43	16.35	16.81
	6H	15.64	16.42	16.13	16.90	17.37	15.64	16.42	16.13	16.90	17.37
	8H	15.87	16.57	16.37	17.07	17.55	15.87	16.57	16.37	17.07	17.55
	12H	16.05	16.67	16.55	17.16	17.71	16.05	16.67	16.55	17.16	17.71
12H	4H	15.00	15.85	15.48	16.32	16.79	15.00	15.85	15.48	16.32	16.79
	6H	15.69	16.39	16.19	16.89	17.37	15.69	16.39	16.19	16.89	17.37
	8H	15.97	16.59	16.47	17.08	17.63	15.97	16.59	16.47	17.08	17.63