

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: P866100

Luminaire Tested: PRLX-2001-M-940-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-940-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

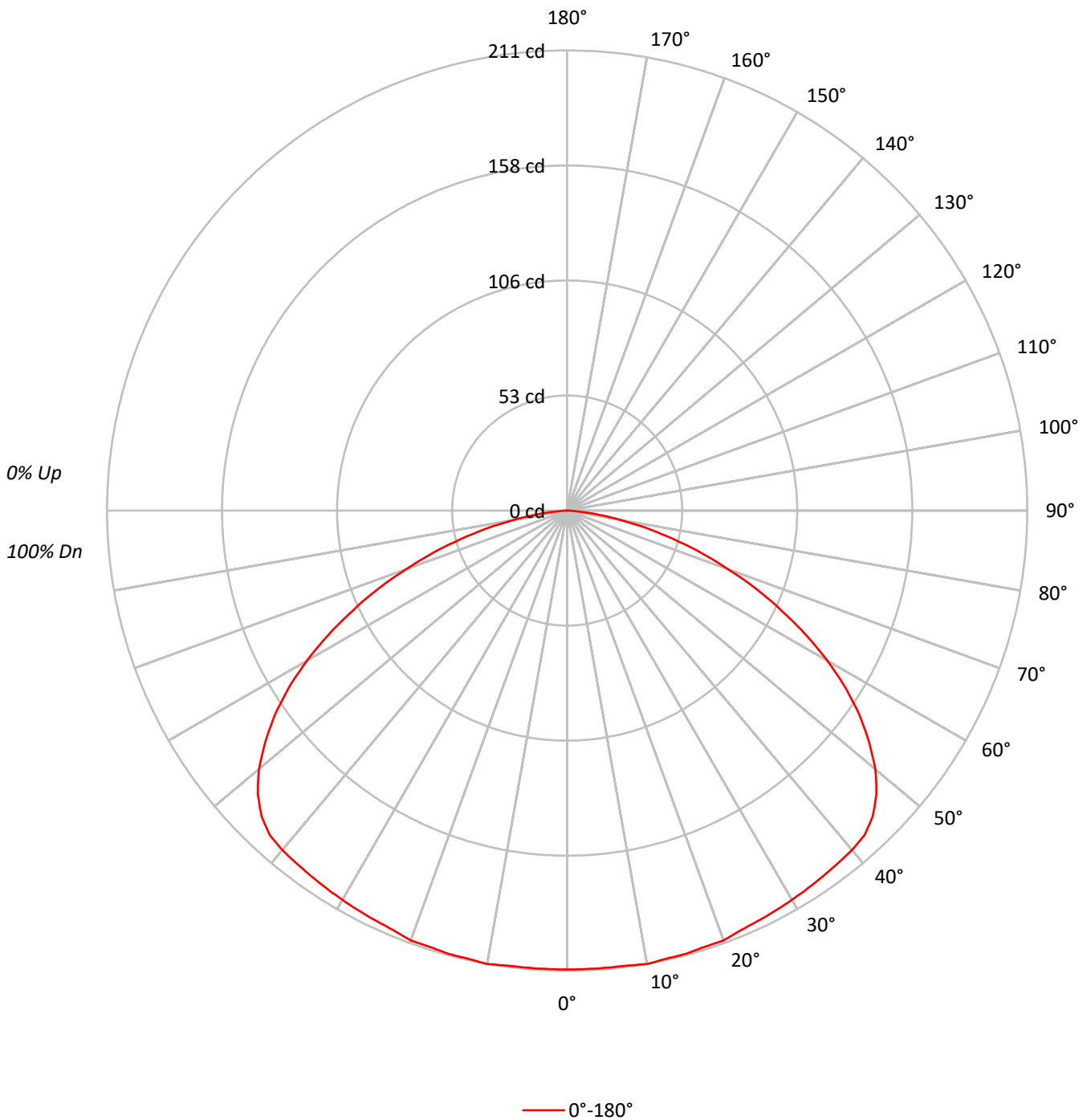
Lumens per Lamp: N/A
Luminaire Lumens: 772.6 lumens
Efficiency: N/A
Efficacy: 35.6 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	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	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1785
5°	1792
10°	1819
15°	1848
20°	1894
25°	1943
30°	2020
35°	2120
40°	2251
45°	2379
50°	2436
55°	2422
60°	2340
65°	2177
70°	1943
75°	1649
80°	1227
85°	633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	2.6
10°-20°	59.6	7.7
20°-30°	96.0	12.4
30°-40°	128.5	16.6
40°-50°	152.0	19.7
50°-60°	145.6	18.8
60°-70°	107.3	13.9
70°-80°	53.7	7.0
80°-90°	9.7	1.3
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°	175.7	22.7
0°-40°	304.2	39.4
0°-60°	601.9	77.9
0°-90°	772.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	210	
5°	210	20
15°	210	60
25°	208	96
35°	205	129
45°	198	152
55°	164	146
65°	108	107
75°	50	54
85°	6	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	210.4
2.5°	210.4
5°	210.4
7.5°	210.4
10°	211.1
12.5°	210.4
15°	210.4
17.5°	209.7
20°	209.7
22.5°	208.2
25°	207.5
27.5°	206.8
30°	206.1
32.5°	205.4
35°	204.6
37.5°	203.9
40°	203.2
42.5°	201.8
45°	198.2
47.5°	192.4
50°	184.5
52.5°	174.5
55°	163.7
57.5°	151.5
60°	137.9
62.5°	123.5
65°	108.4
67.5°	94.1
70°	78.3
72.5°	64.6
75°	50.3
77.5°	37.3
80°	25.1
82.5°	15.1
85°	6.5
87.5°	1.4
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	15.71	17.41	16.08	17.73	18.04	15.71	17.41	16.08	17.73	18.04
	3H	17.33	18.87	17.70	19.19	19.55	17.33	18.87	17.70	19.19	19.55
	4H	17.85	19.30	18.25	19.64	20.02	17.85	19.30	18.25	19.64	20.02
	6H	18.15	19.49	18.56	19.86	20.25	18.15	19.49	18.56	19.86	20.25
	8H	18.21	19.49	18.63	19.88	20.28	18.21	19.49	18.63	19.88	20.28
	12H	18.23	19.46	18.66	19.84	20.27	18.23	19.46	18.66	19.84	20.27
4H	2H	16.31	17.76	16.71	18.11	18.48	16.31	17.76	16.71	18.11	18.48
	3H	18.12	19.34	18.53	19.73	20.13	18.12	19.34	18.53	19.73	20.13
	4H	18.75	19.85	19.18	20.26	20.69	18.75	19.85	19.18	20.26	20.69
	6H	19.15	20.10	19.60	20.54	21.00	19.15	20.10	19.60	20.54	21.00
	8H	19.23	20.13	19.69	20.57	21.03	19.23	20.13	19.69	20.57	21.03
	12H	19.27	20.07	19.75	20.55	21.02	19.27	20.07	19.75	20.55	21.02
8H	4H	18.99	19.88	19.45	20.33	20.79	18.99	19.88	19.45	20.33	20.79
	6H	19.46	20.20	19.95	20.68	21.16	19.46	20.20	19.95	20.68	21.16
	8H	19.58	20.24	20.08	20.75	21.23	19.58	20.24	20.08	20.75	21.23
	12H	19.64	20.23	20.15	20.72	21.28	19.64	20.23	20.15	20.72	21.28
12H	4H	19.00	19.81	19.48	20.28	20.75	19.00	19.81	19.48	20.28	20.75
	6H	19.47	20.14	19.98	20.64	21.13	19.47	20.14	19.98	20.64	21.13
	8H	19.63	20.22	20.14	20.71	21.27	19.63	20.22	20.14	20.71	21.27