

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: P866116

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866116
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: Prenalux
Catalog Number: PRLX-2001-M-940-45L-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 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

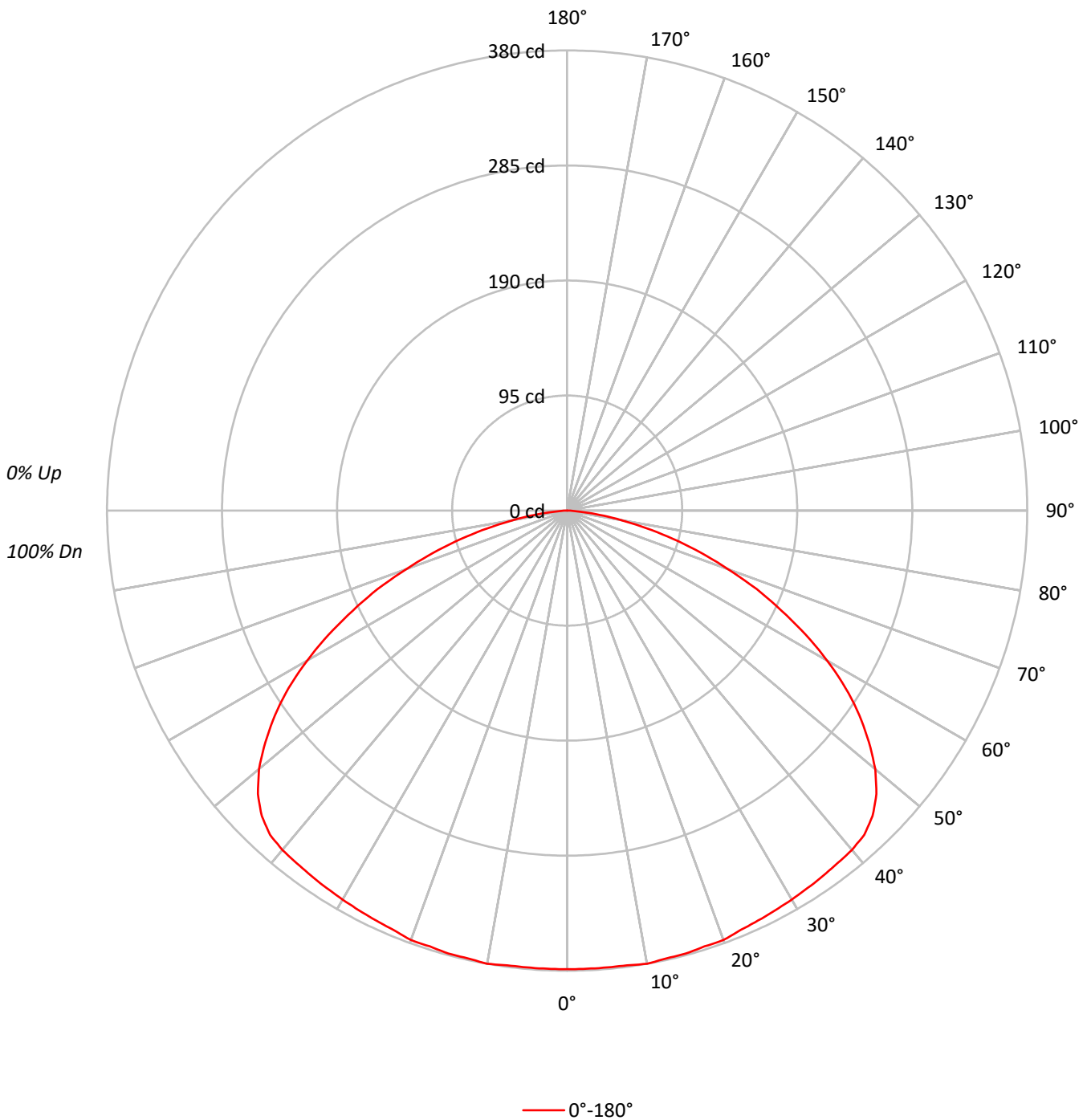
Lumens per Lamp: N/A
Luminaire Lumens: 1390.6 lumens
Efficiency: N/A
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3214
5°	3226
10°	3274
15°	3327
20°	3408
25°	3497
30°	3634
35°	3815
40°	4052
45°	4281
50°	4386
55°	4360
60°	4211
65°	3920
70°	3496
75°	2967
80°	2209
85°	1129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	2.6
10°-20°	107.2	7.7
20°-30°	172.9	12.4
30°-40°	231.3	16.6
40°-50°	273.7	19.7
50°-60°	262.1	18.8
60°-70°	193.2	13.9
70°-80°	96.7	7.0
80°-90°	17.4	1.2
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°	316.3	22.7
0°-40°	547.6	39.4
0°-60°	1083.3	77.9
0°-90°	1390.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	379	
5°	379	36
15°	379	107
25°	374	173
35°	368	231
45°	357	274
55°	295	262
65°	195	193
75°	90	97
85°	12	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	378.7
2.5°	378.7
5°	378.7
7.5°	378.7
10°	380.0
12.5°	378.7
15°	378.7
17.5°	377.4
20°	377.4
22.5°	374.8
25°	373.5
27.5°	372.2
30°	370.9
32.5°	369.6
35°	368.3
37.5°	367.0
40°	365.8
42.5°	363.2
45°	356.7
47.5°	346.4
50°	332.2
52.5°	314.1
55°	294.7
57.5°	272.7
60°	248.1
62.5°	222.3
65°	195.2
67.5°	169.3
70°	140.9
72.5°	116.3
75°	90.5
77.5°	67.2
80°	45.2
82.5°	27.1
85°	11.6
87.5°	2.6
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	17.75	19.45	18.12	19.77	20.08	17.75	19.45	18.12	19.77	20.08
	3H	19.37	20.91	19.74	21.23	21.59	19.37	20.91	19.74	21.23	21.59
	4H	19.89	21.34	20.29	21.69	22.06	19.89	21.34	20.29	21.69	22.06
	6H	20.19	21.53	20.60	21.90	22.29	20.19	21.53	20.60	21.90	22.29
	8H	20.25	21.53	20.67	21.92	22.32	20.25	21.53	20.67	21.92	22.32
	12H	20.27	21.50	20.70	21.88	22.31	20.27	21.50	20.70	21.88	22.31
4H	2H	18.36	19.81	18.75	20.15	20.53	18.36	19.81	18.75	20.15	20.53
	3H	20.17	21.38	20.58	21.78	22.18	20.17	21.38	20.58	21.78	22.18
	4H	20.79	21.89	21.22	22.30	22.74	20.79	21.89	21.22	22.30	22.74
	6H	21.19	22.14	21.64	22.58	23.04	21.19	22.14	21.64	22.58	23.04
	8H	21.27	22.17	21.73	22.61	23.07	21.27	22.17	21.73	22.61	23.07
	12H	21.31	22.11	21.79	22.59	23.06	21.31	22.11	21.79	22.59	23.06
8H	4H	21.03	21.93	21.49	22.37	22.83	21.03	21.93	21.49	22.37	22.83
	6H	21.50	22.24	21.99	22.73	23.20	21.50	22.24	21.99	22.73	23.20
	8H	21.62	22.28	22.13	22.79	23.27	21.62	22.28	22.13	22.79	23.27
	12H	21.68	22.27	22.19	22.76	23.32	21.68	22.27	22.19	22.76	23.32
12H	4H	21.05	21.85	21.52	22.32	22.79	21.05	21.85	21.52	22.32	22.79
	6H	21.51	22.18	22.02	22.69	23.17	21.51	22.18	22.02	22.69	23.17
	8H	21.67	22.26	22.18	22.75	23.31	21.67	22.26	22.18	22.75	23.31