

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: P866914

Luminaire Tested: PRLX-2001-L-940-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-83L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

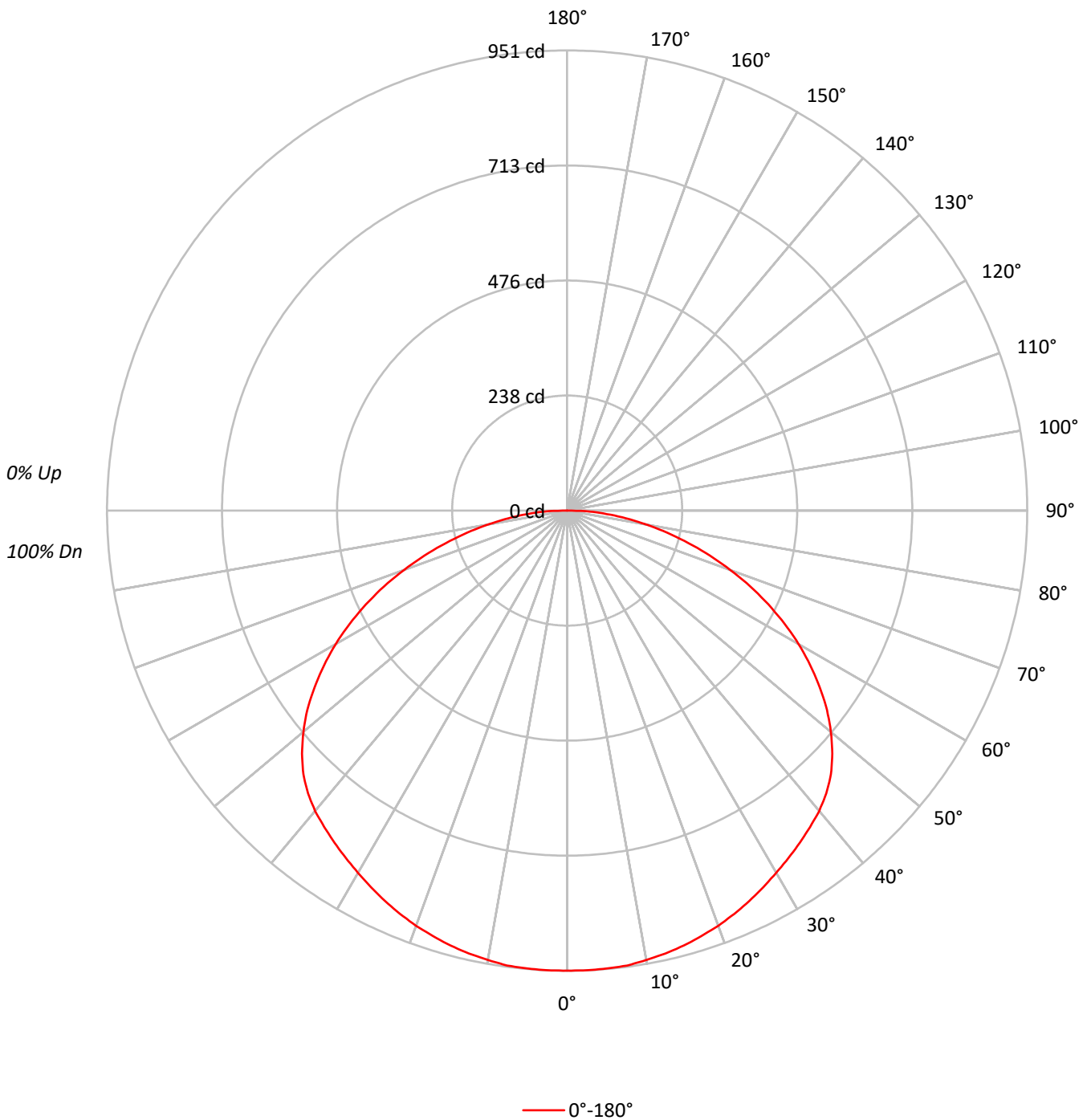
Lumens per Lamp: N/A
Luminaire Lumens: 3272.0 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: 0.5 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	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	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°	5198
5°	5213
10°	5235
15°	5267
20°	5312
25°	5372
30°	5457
35°	5594
40°	5783
45°	5962
50°	6053
55°	6078
60°	6045
65°	5935
70°	5732
75°	5490
80°	5220
85°	5175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	2.8
10°-20°	263.1	8.0
20°-30°	411.2	12.6
30°-40°	525.6	16.1
40°-50°	593.0	18.1
50°-60°	569.0	17.4
60°-70°	453.2	13.9
70°-80°	275.2	8.4
80°-90°	91.2	2.8
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°	764.7	23.4
0°-40°	1290.4	39.4
0°-60°	2452.4	75.0
0°-90°	3272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	951	
5°	950	90
15°	931	263
25°	891	411
35°	838	526
45°	771	593
55°	638	569
65°	459	453
75°	260	275
85°	82	91
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	950.8
2.5°	950.8
5°	950.0
7.5°	948.4
10°	943.0
12.5°	937.6
15°	930.7
17.5°	922.2
20°	913.0
22.5°	902.2
25°	890.6
27.5°	877.5
30°	864.4
32.5°	851.3
35°	838.2
37.5°	824.3
40°	810.4
42.5°	792.7
45°	771.1
47.5°	743.3
50°	711.7
52.5°	677.0
55°	637.7
57.5°	596.1
60°	552.9
62.5°	506.6
65°	458.8
67.5°	410.2
70°	358.6
72.5°	309.2
75°	259.9
77.5°	212.0
80°	165.8
82.5°	122.6
85°	82.5
87.5°	47.0
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	18.68	20.39	19.05	20.71	21.02	18.68	20.39	19.05	20.71	21.02
	3H	20.65	22.20	21.02	22.53	22.88	20.65	22.20	21.02	22.53	22.88
	4H	21.41	22.87	21.80	23.22	23.59	21.41	22.87	21.80	23.22	23.59
	6H	22.00	23.37	22.41	23.73	24.12	22.00	23.37	22.41	23.73	24.12
	8H	22.22	23.53	22.64	23.92	24.31	22.22	23.53	22.64	23.92	24.31
	12H	22.39	23.65	22.82	24.03	24.46	22.39	23.65	22.82	24.03	24.46
4H	2H	19.38	20.84	19.77	21.19	21.56	19.38	20.84	19.77	21.19	21.56
	3H	21.56	22.80	21.97	23.19	23.59	21.56	22.80	21.97	23.19	23.59
	4H	22.45	23.58	22.88	23.99	24.43	22.45	23.58	22.88	23.99	24.43
	6H	23.19	24.18	23.64	24.62	25.07	23.19	24.18	23.64	24.62	25.07
	8H	23.47	24.40	23.93	24.84	25.30	23.47	24.40	23.93	24.84	25.30
	12H	23.70	24.54	24.18	25.01	25.48	23.70	24.54	24.18	25.01	25.48
8H	4H	22.82	23.75	23.28	24.19	24.65	22.82	23.75	23.28	24.19	24.65
	6H	23.70	24.48	24.19	24.96	25.44	23.70	24.48	24.19	24.96	25.44
	8H	24.07	24.77	24.57	25.27	25.75	24.07	24.77	24.57	25.27	25.75
	12H	24.40	25.02	24.90	25.51	26.06	24.40	25.02	24.90	25.51	26.06
12H	4H	22.87	23.71	23.35	24.18	24.65	22.87	23.71	23.35	24.18	24.65
	6H	23.78	24.48	24.29	24.99	25.47	23.78	24.48	24.29	24.99	25.47
	8H	24.22	24.84	24.72	25.33	25.89	24.22	24.84	24.72	25.33	25.89