

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: P866390

Luminaire Tested: PRLX-2002-M-940-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-65L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

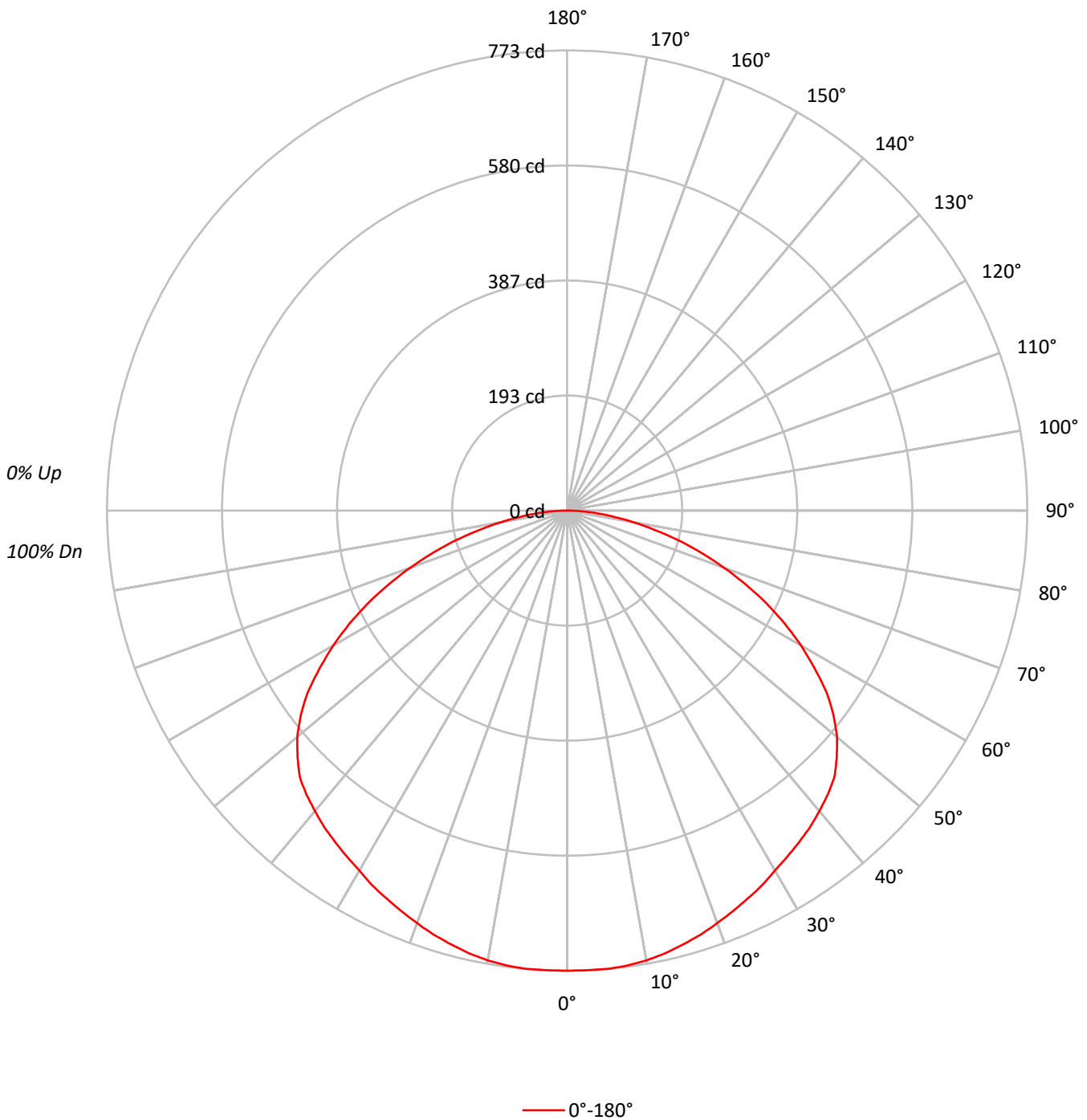
Lumens per Lamp: N/A
Luminaire Lumens: 2630.3 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6149
5°	6172
10°	6199
15°	6212
20°	6243
25°	6309
30°	6414
35°	6599
40°	6844
45°	7141
50°	7325
55°	7379
60°	7217
65°	6958
70°	6513
75°	5966
80°	5218
85°	4263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7379 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	2.8
10°-20°	213.2	8.1
20°-30°	332.0	12.6
30°-40°	426.3	16.2
40°-50°	487.6	18.5
50°-60°	472.3	18.0
60°-70°	364.6	13.9
70°-80°	205.5	7.8
80°-90°	55.1	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°	618.9	23.5
0°-40°	1045.1	39.7
0°-60°	2005.1	76.2
0°-90°	2630.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2630.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	773	
5°	773	74
15°	754	213
25°	719	332
35°	680	426
45°	635	488
55°	532	472
65°	370	365
75°	194	205
85°	47	55
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	772.9
2.5°	772.9
5°	772.9
7.5°	771.0
10°	767.3
12.5°	761.7
15°	754.2
17.5°	746.7
20°	737.4
22.5°	728.1
25°	718.7
27.5°	709.4
30°	698.2
32.5°	688.9
35°	679.5
37.5°	670.2
40°	659.0
42.5°	647.8
45°	634.7
47.5°	614.2
50°	591.8
52.5°	563.8
55°	532.0
57.5°	492.8
60°	453.6
62.5°	412.6
65°	369.6
67.5°	324.8
70°	280.0
72.5°	237.1
75°	194.1
77.5°	151.2
80°	113.9
82.5°	78.4
85°	46.7
87.5°	20.5
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	19.43	21.13	19.79	21.45	21.76	19.43	21.13	19.79	21.45	21.76
	3H	21.25	22.79	21.62	23.12	23.48	21.25	22.79	21.62	23.12	23.48
	4H	21.91	23.37	22.31	23.71	24.09	21.91	23.37	22.31	23.71	24.09
	6H	22.38	23.73	22.78	24.09	24.48	22.38	23.73	22.78	24.09	24.48
	8H	22.52	23.82	22.94	24.20	24.60	22.52	23.82	22.94	24.20	24.60
	12H	22.62	23.86	23.04	24.24	24.67	22.62	23.86	23.04	24.24	24.67
4H	2H	20.09	21.55	20.49	21.89	22.27	20.09	21.55	20.49	21.89	22.27
	3H	22.12	23.34	22.53	23.74	24.14	22.12	23.34	22.53	23.74	24.14
	4H	22.90	24.02	23.33	24.43	24.86	22.90	24.02	23.33	24.43	24.86
	6H	23.49	24.47	23.94	24.91	25.36	23.49	24.47	23.94	24.91	25.36
	8H	23.68	24.60	24.14	25.04	25.50	23.68	24.60	24.14	25.04	25.50
	12H	23.82	24.64	24.30	25.12	25.58	23.82	24.64	24.30	25.12	25.58
8H	4H	23.22	24.13	23.67	24.57	25.03	23.22	24.13	23.67	24.57	25.03
	6H	23.92	24.68	24.41	25.17	25.64	23.92	24.68	24.41	25.17	25.64
	8H	24.18	24.86	24.69	25.37	25.85	24.18	24.86	24.69	25.37	25.85
	12H	24.38	24.99	24.89	25.48	26.03	24.38	24.99	24.89	25.48	26.03
12H	4H	23.25	24.07	23.73	24.55	25.01	23.25	24.07	23.73	24.55	25.01
	6H	23.97	24.66	24.48	25.16	25.65	23.97	24.66	24.48	25.16	25.65
	8H	24.29	24.89	24.79	25.38	25.94	24.29	24.89	24.79	25.38	25.94