

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: P867106

Luminaire Tested: PRLX-2002-L-935-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-83L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

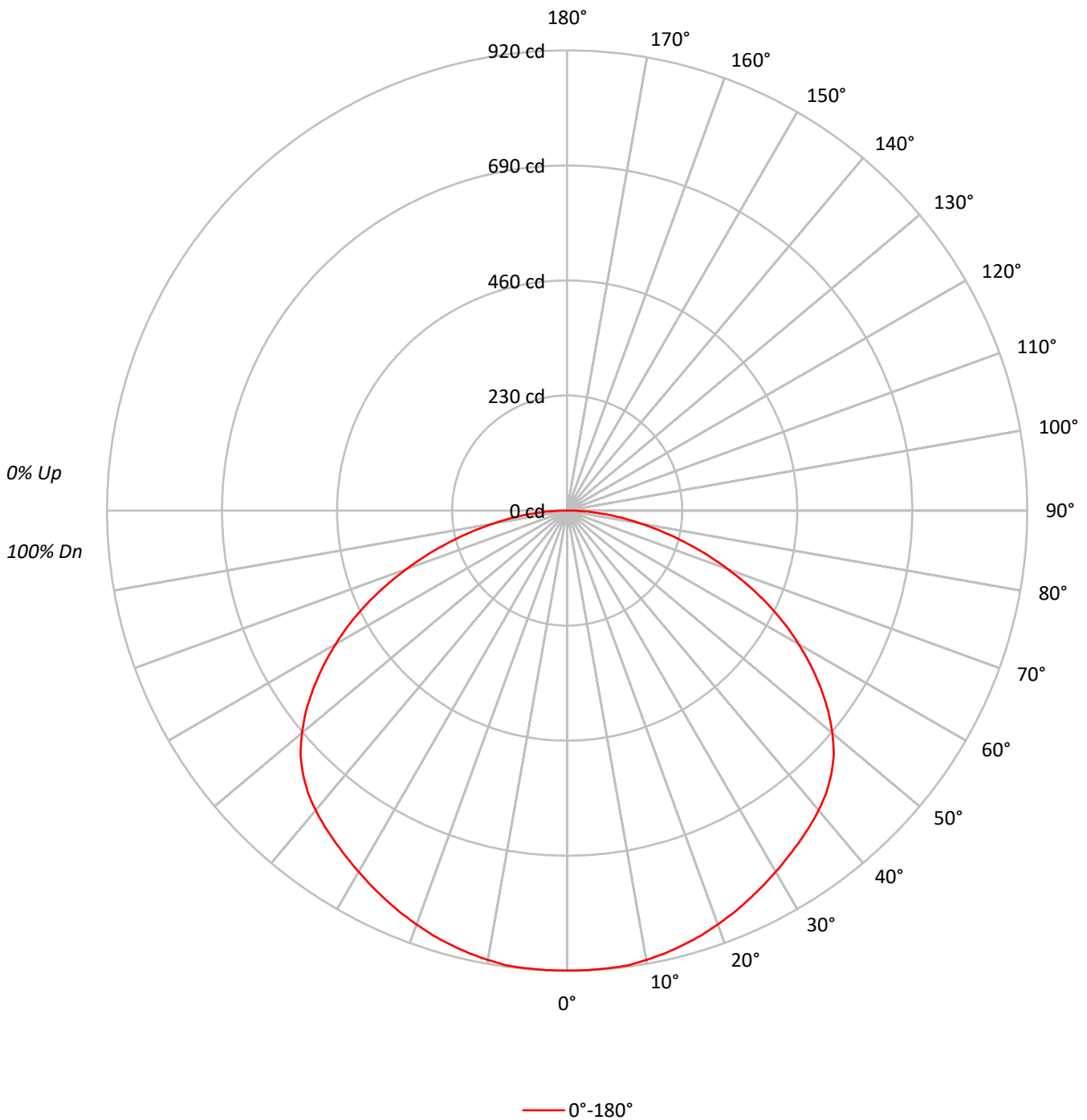
Lumens per Lamp: N/A
Luminaire Lumens: 3144.8 lumens
Efficiency: N/A
Efficacy: 48.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	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		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	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	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4537
5°	4551
10°	4570
15°	4591
20°	4623
25°	4672
30°	4751
35°	4871
40°	5038
45°	5210
50°	5312
55°	5325
60°	5277
65°	5165
70°	4922
75°	4632
80°	4259
85°	3929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 5334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	2.8
10°-20°	254.1	8.1
20°-30°	396.5	12.6
30°-40°	507.3	16.1
40°-50°	574.8	18.3
50°-60°	552.4	17.6
60°-70°	436.4	13.9
70°-80°	257.4	8.2
80°-90°	78.3	2.5
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°	738.1	23.5
0°-40°	1245.5	39.6
0°-60°	2372.7	75.4
0°-90°	3144.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	920	
5°	919	88
15°	899	254
25°	858	396
35°	809	507
45°	747	575
55°	619	552
65°	442	436
75°	243	257
85°	69	78
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	919.6
2.5°	919.6
5°	918.8
7.5°	917.4
10°	912.2
12.5°	906.3
15°	898.9
17.5°	890.8
20°	880.4
22.5°	870.1
25°	858.3
27.5°	846.4
30°	833.9
32.5°	821.3
35°	808.8
37.5°	796.2
40°	782.2
42.5°	766.7
45°	746.7
47.5°	723.1
50°	692.1
52.5°	658.1
55°	619.0
57.5°	578.3
60°	534.8
62.5°	490.4
65°	442.4
67.5°	392.9
70°	341.2
72.5°	292.5
75°	243.0
77.5°	195.0
80°	149.9
82.5°	107.8
85°	69.4
87.5°	35.5
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	18.26	19.96	18.62	20.28	20.59	18.26	19.96	18.62	20.28	20.59
	3H	20.17	21.72	20.55	22.05	22.41	20.17	21.72	20.55	22.05	22.41
	4H	20.90	22.36	21.29	22.71	23.08	20.90	22.36	21.29	22.71	23.08
	6H	21.44	22.80	21.85	23.16	23.55	21.44	22.80	21.85	23.16	23.55
	8H	21.63	22.93	22.05	23.32	23.72	21.63	22.93	22.05	23.32	23.72
	12H	21.77	23.01	22.19	23.40	23.82	21.77	23.01	22.19	23.40	23.82
4H	2H	18.94	20.41	19.34	20.75	21.13	18.94	20.41	19.34	20.75	21.13
	3H	21.07	22.31	21.48	22.70	23.10	21.07	22.31	21.48	22.70	23.10
	4H	21.93	23.05	22.36	23.46	23.89	21.93	23.05	22.36	23.46	23.89
	6H	22.60	23.59	23.06	24.03	24.48	22.60	23.59	23.06	24.03	24.48
	8H	22.85	23.77	23.30	24.21	24.67	22.85	23.77	23.30	24.21	24.67
	12H	23.04	23.87	23.51	24.34	24.81	23.04	23.87	23.51	24.34	24.81
8H	4H	22.27	23.19	22.73	23.63	24.10	22.27	23.19	22.73	23.63	24.10
	6H	23.08	23.85	23.57	24.34	24.81	23.08	23.85	23.57	24.34	24.81
	8H	23.40	24.09	23.91	24.60	25.08	23.40	24.09	23.91	24.60	25.08
	12H	23.68	24.29	24.18	24.78	25.34	23.68	24.29	24.18	24.78	25.34
12H	4H	22.32	23.15	22.79	23.62	24.09	22.32	23.15	22.79	23.62	24.09
	6H	23.15	23.84	23.66	24.35	24.83	23.15	23.84	23.66	24.35	24.83
	8H	23.54	24.15	24.04	24.64	25.20	23.54	24.15	24.04	24.64	25.20