

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: P867038

Luminaire Tested: PRLX-2002-L-930-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-83L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

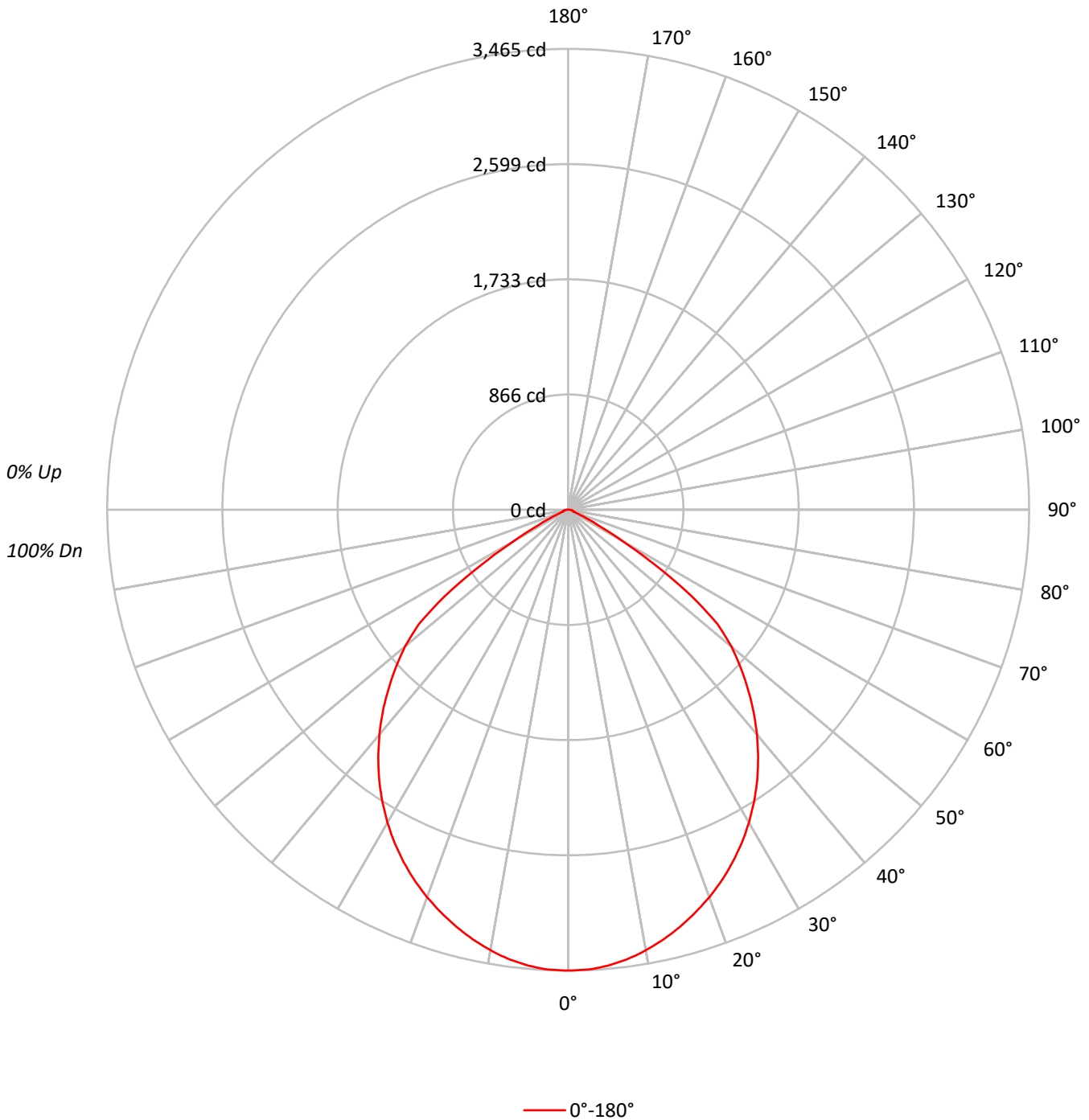
Lumens per Lamp: N/A
Luminaire Lumens: 6809.9 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867038

CATALOG NUMBER: PRLX-2002-L-930-83L-L-X-X-GREY-X

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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17095
5°	17044
10°	16854
15°	16584
20°	16282
25°	15924
30°	15476
35°	14928
40°	14213
45°	13337
50°	12291
55°	9771
60°	4599
65°	1661
70°	639
75°	709
80°	813
85°	974

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	4.8
10°-20°	915.0	13.4
20°-30°	1345.9	19.8
30°-40°	1546.2	22.7
40°-50°	1472.8	21.6
50°-60°	968.5	14.2
60°-70°	178.9	2.6
70°-80°	39.1	0.6
80°-90°	17.5	0.3
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°	2586.9	38.0
0°-40°	4133.1	60.7
0°-60°	6574.4	96.5
0°-90°	6809.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6809.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3465	
5°	3441	326
15°	3247	915
25°	2925	1346
35°	2478	1546
45°	1912	1473
55°	1136	969
65°	142	179
75°	37	39
85°	17	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3464.9
2.5°	3461.3
5°	3441.3
7.5°	3409.1
10°	3364.1
12.5°	3309.0
15°	3246.8
17.5°	3176.8
20°	3101.0
22.5°	3016.7
25°	2925.2
27.5°	2825.1
30°	2716.4
32.5°	2599.9
35°	2478.4
37.5°	2345.4
40°	2206.7
42.5°	2064.5
45°	1911.5
47.5°	1760.0
50°	1601.3
52.5°	1415.4
55°	1135.9
57.5°	778.5
60°	466.1
62.5°	262.3
65°	142.3
67.5°	71.5
70°	44.3
72.5°	40.7
75°	37.2
77.5°	33.6
80°	28.6
82.5°	23.6
85°	17.2
87.5°	9.3
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	17.86	19.26	18.22	19.57	19.89	17.86	19.26	18.22	19.57	19.89
	3H	17.77	19.01	18.15	19.34	19.70	17.77	19.01	18.15	19.34	19.70
	4H	17.72	18.87	18.13	19.22	19.60	17.72	18.87	18.13	19.22	19.60
	6H	17.68	18.73	18.09	19.10	19.49	17.68	18.73	18.09	19.10	19.49
	8H	17.65	18.65	18.08	19.04	19.44	17.65	18.65	18.08	19.04	19.44
	12H	17.63	18.58	18.06	18.96	19.39	17.63	18.58	18.06	18.96	19.39
4H	2H	17.73	18.88	18.13	19.23	19.61	17.73	18.88	18.13	19.23	19.61
	3H	17.66	18.59	18.07	18.99	19.39	17.66	18.59	18.07	18.99	19.39
	4H	17.61	18.43	18.04	18.85	19.29	17.61	18.43	18.04	18.85	19.29
	6H	17.58	18.29	18.04	18.73	19.20	17.58	18.29	18.04	18.73	19.20
	8H	17.55	18.21	18.02	18.66	19.13	17.55	18.21	18.02	18.66	19.13
	12H	17.53	18.12	18.02	18.60	19.08	17.53	18.12	18.02	18.60	19.08
8H	4H	17.50	18.16	17.97	18.61	19.08	17.50	18.16	17.97	18.61	19.08
	6H	17.46	18.01	17.96	18.50	18.98	17.46	18.01	17.96	18.50	18.98
	8H	17.44	17.93	17.96	18.45	18.94	17.44	17.93	17.96	18.45	18.94
	12H	17.43	17.88	17.95	18.37	18.94	17.43	17.88	17.95	18.37	18.94
12H	4H	17.46	18.04	17.94	18.53	19.00	17.46	18.04	17.94	18.53	19.00
	6H	17.40	17.90	17.92	18.41	18.91	17.40	17.90	17.92	18.41	18.91
	8H	17.40	17.85	17.92	18.34	18.91	17.40	17.85	17.92	18.34	18.91