

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: P867091

Luminaire Tested: PRLX-2002-L-935-48L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-48L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

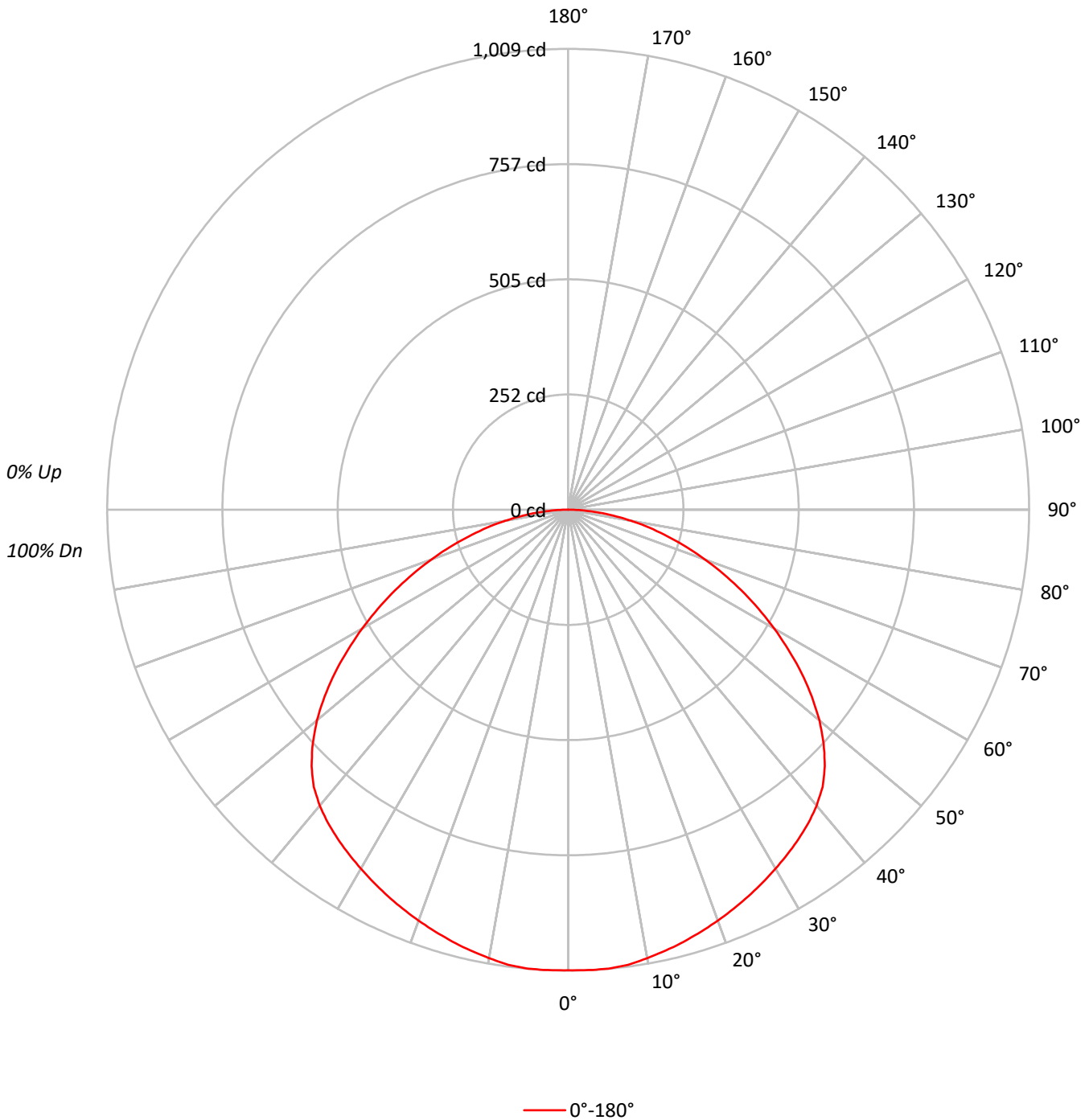
Lumens per Lamp: N/A
Luminaire Lumens: 3245.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: 0.333 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	99	95	106	101	97	93	97	94	90		93	90	88		89	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	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4977
5°	4996
10°	4994
15°	5001
20°	5028
25°	5082
30°	5170
35°	5297
40°	5447
45°	5542
50°	5510
55°	5364
60°	5140
65°	4879
70°	4586
75°	4278
80°	3969
85°	3532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.0
10°-20°	276.8	8.5
20°-30°	431.3	13.3
30°-40°	551.1	17.0
40°-50°	610.2	18.8
50°-60°	556.1	17.1
60°-70°	414.3	12.8
70°-80°	239.2	7.4
80°-90°	70.9	2.2
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°	803.9	24.8
0°-40°	1355.1	41.7
0°-60°	2521.4	77.7
0°-90°	3245.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1009	
5°	1009	96
15°	979	277
25°	934	431
35°	879	551
45°	794	610
55°	624	556
65°	418	414
75°	224	239
85°	62	71
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1008.7
2.5°	1009.1
5°	1008.7
7.5°	1005.2
10°	996.9
12.5°	988.6
15°	979.0
17.5°	968.5
20°	957.6
22.5°	945.8
25°	933.6
27.5°	920.9
30°	907.4
32.5°	893.9
35°	879.4
37.5°	864.2
40°	845.8
42.5°	824.0
45°	794.3
47.5°	758.5
50°	717.9
52.5°	672.0
55°	623.6
57.5°	572.0
60°	520.9
62.5°	469.4
65°	417.9
67.5°	368.1
70°	317.9
72.5°	271.2
75°	224.4
77.5°	182.5
80°	139.7
82.5°	99.6
85°	62.4
87.5°	28.8
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	18.10	19.78	18.47	20.09	20.41	18.10	19.78	18.47	20.09	20.41
	3H	19.85	21.37	20.23	21.70	22.06	19.85	21.37	20.23	21.70	22.06
	4H	20.52	21.95	20.92	22.30	22.67	20.52	21.95	20.92	22.30	22.67
	6H	21.04	22.37	21.45	22.73	23.12	21.04	22.37	21.45	22.73	23.12
	8H	21.21	22.48	21.63	22.87	23.27	21.21	22.48	21.63	22.87	23.27
	12H	21.33	22.55	21.76	22.93	23.36	21.33	22.55	21.76	22.93	23.36
4H	2H	18.72	20.16	19.12	20.50	20.88	18.72	20.16	19.12	20.50	20.88
	3H	20.70	21.90	21.11	22.30	22.70	20.70	21.90	21.11	22.30	22.70
	4H	21.50	22.59	21.93	23.00	23.43	21.50	22.59	21.93	23.00	23.43
	6H	22.15	23.11	22.60	23.54	24.00	22.15	23.11	22.60	23.54	24.00
	8H	22.38	23.27	22.84	23.71	24.18	22.38	23.27	22.84	23.71	24.18
	12H	22.55	23.36	23.03	23.83	24.30	22.55	23.36	23.03	23.83	24.30
8H	4H	21.82	22.71	22.28	23.15	23.62	21.82	22.71	22.28	23.15	23.62
	6H	22.60	23.35	23.09	23.83	24.31	22.60	23.35	23.09	23.83	24.31
	8H	22.91	23.58	23.41	24.08	24.57	22.91	23.58	23.41	24.08	24.57
	12H	23.16	23.75	23.66	24.24	24.80	23.16	23.75	23.66	24.24	24.80
12H	4H	21.86	22.67	22.34	23.14	23.61	21.86	22.67	22.34	23.14	23.61
	6H	22.67	23.34	23.17	23.84	24.33	22.67	23.34	23.17	23.84	24.33
	8H	23.03	23.63	23.54	24.12	24.68	23.03	23.63	23.54	24.12	24.68