

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: P866327

Luminaire Tested: PRLX-2002-M-935-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-65L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

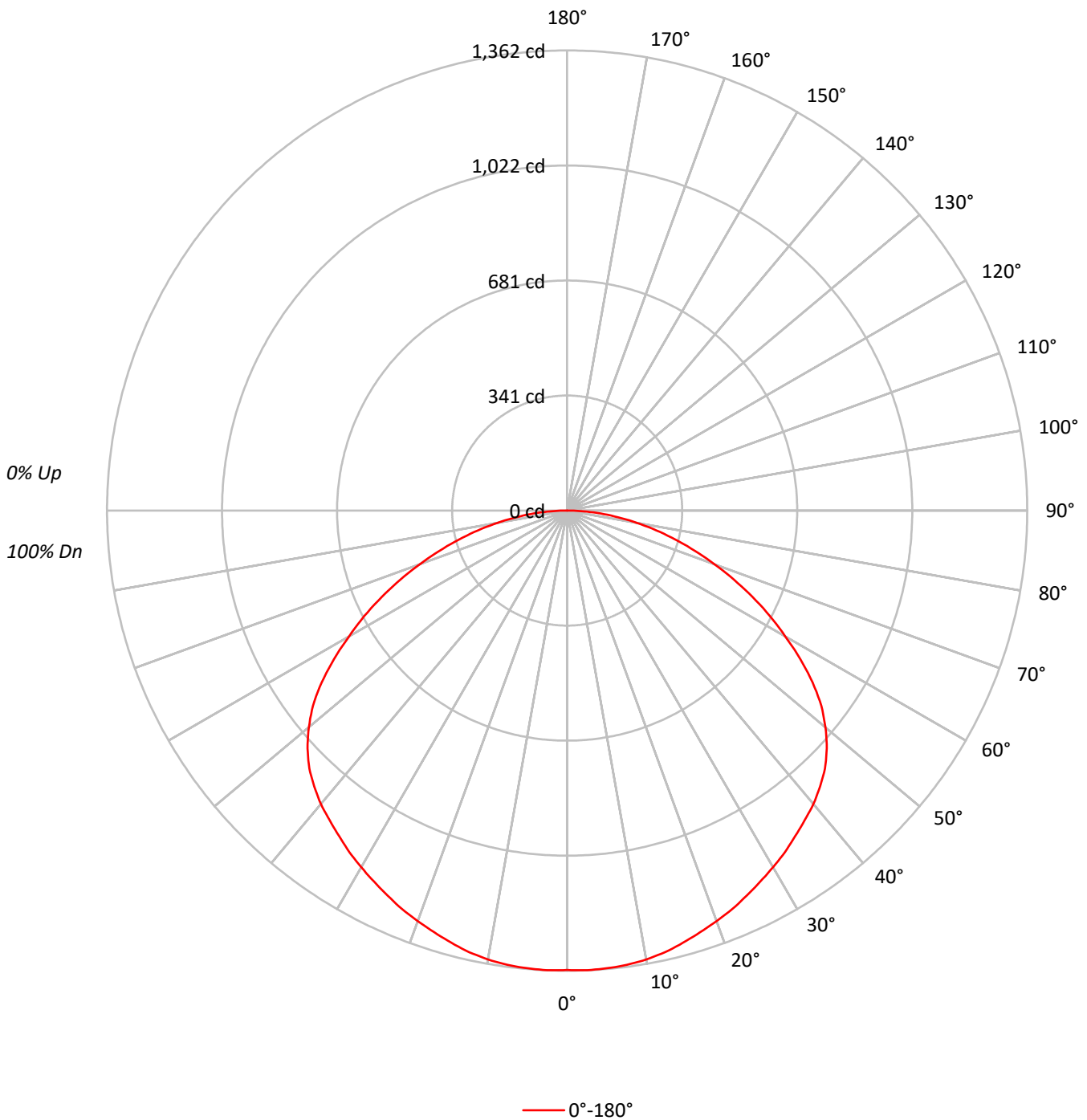
Lumens per Lamp: N/A
Luminaire Lumens: 4503.5 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.333 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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10819
5°	10860
10°	10900
15°	10910
20°	10946
25°	11039
30°	11197
35°	11426
40°	11778
45°	12146
50°	12356
55°	12306
60°	11872
65°	11389
70°	10791
75°	10193
80°	9617
85°	9019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 12401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	2.9
10°-20°	374.3	8.3
20°-30°	580.9	12.9
30°-40°	738.3	16.4
40°-50°	830.3	18.4
50°-60°	788.8	17.5
60°-70°	599.2	13.3
70°-80°	352.2	7.8
80°-90°	110.2	2.4
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°	1084.6	24.1
0°-40°	1822.9	40.5
0°-60°	3442.0	76.4
0°-90°	4503.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4503.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1360	
5°	1360	129
15°	1325	374
25°	1258	581
35°	1176	738
45°	1080	830
55°	887	789
65°	605	599
75°	332	352
85°	99	110
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1359.9
2.5°	1361.7
5°	1359.9
7.5°	1356.4
10°	1349.3
12.5°	1338.7
15°	1324.6
17.5°	1308.7
20°	1292.9
22.5°	1277.0
25°	1257.6
27.5°	1238.2
30°	1218.8
32.5°	1199.4
35°	1176.5
37.5°	1155.3
40°	1134.1
42.5°	1107.7
45°	1079.5
47.5°	1042.4
50°	998.3
52.5°	948.9
55°	887.2
57.5°	818.4
60°	746.1
62.5°	677.3
65°	605.0
67.5°	534.4
70°	463.9
72.5°	396.9
75°	331.6
77.5°	269.9
80°	209.9
82.5°	151.7
85°	98.8
87.5°	49.4
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	21.09	22.79	21.46	23.10	23.42	21.09	22.79	21.46	23.10	23.42
	3H	22.89	24.43	23.27	24.75	25.11	22.89	24.43	23.27	24.75	25.11
	4H	23.58	25.04	23.98	25.38	25.76	23.58	25.04	23.98	25.38	25.76
	6H	24.13	25.48	24.54	25.84	26.23	24.13	25.48	24.54	25.84	26.23
	8H	24.33	25.61	24.75	26.00	26.40	24.33	25.61	24.75	26.00	26.40
	12H	24.47	25.71	24.90	26.09	26.52	24.47	25.71	24.90	26.09	26.52
4H	2H	21.73	23.18	22.13	23.53	23.90	21.73	23.18	22.13	23.53	23.90
	3H	23.75	24.98	24.16	25.37	25.77	23.75	24.98	24.16	25.37	25.77
	4H	24.58	25.69	25.01	26.10	26.54	24.58	25.69	25.01	26.10	26.54
	6H	25.27	26.24	25.72	26.68	27.14	25.27	26.24	25.72	26.68	27.14
	8H	25.52	26.43	25.98	26.87	27.34	25.52	26.43	25.98	26.87	27.34
	12H	25.72	26.54	26.20	27.01	27.48	25.72	26.54	26.20	27.01	27.48
8H	4H	24.92	25.83	25.38	26.27	26.74	24.92	25.83	25.38	26.27	26.74
	6H	25.75	26.51	26.24	26.99	27.47	25.75	26.51	26.24	26.99	27.47
	8H	26.08	26.76	26.59	27.27	27.75	26.08	26.76	26.59	27.27	27.75
	12H	26.37	26.97	26.87	27.46	28.02	26.37	26.97	26.87	27.46	28.02
12H	4H	24.97	25.79	25.45	26.26	26.73	24.97	25.79	25.45	26.26	26.73
	6H	25.82	26.50	26.33	27.01	27.49	25.82	26.50	26.33	27.01	27.49
	8H	26.22	26.82	26.72	27.31	27.87	26.22	26.82	26.72	27.31	27.87