

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: P866335

Luminaire Tested: PRLX-2002-M-935-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866335
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-935-75L-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 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

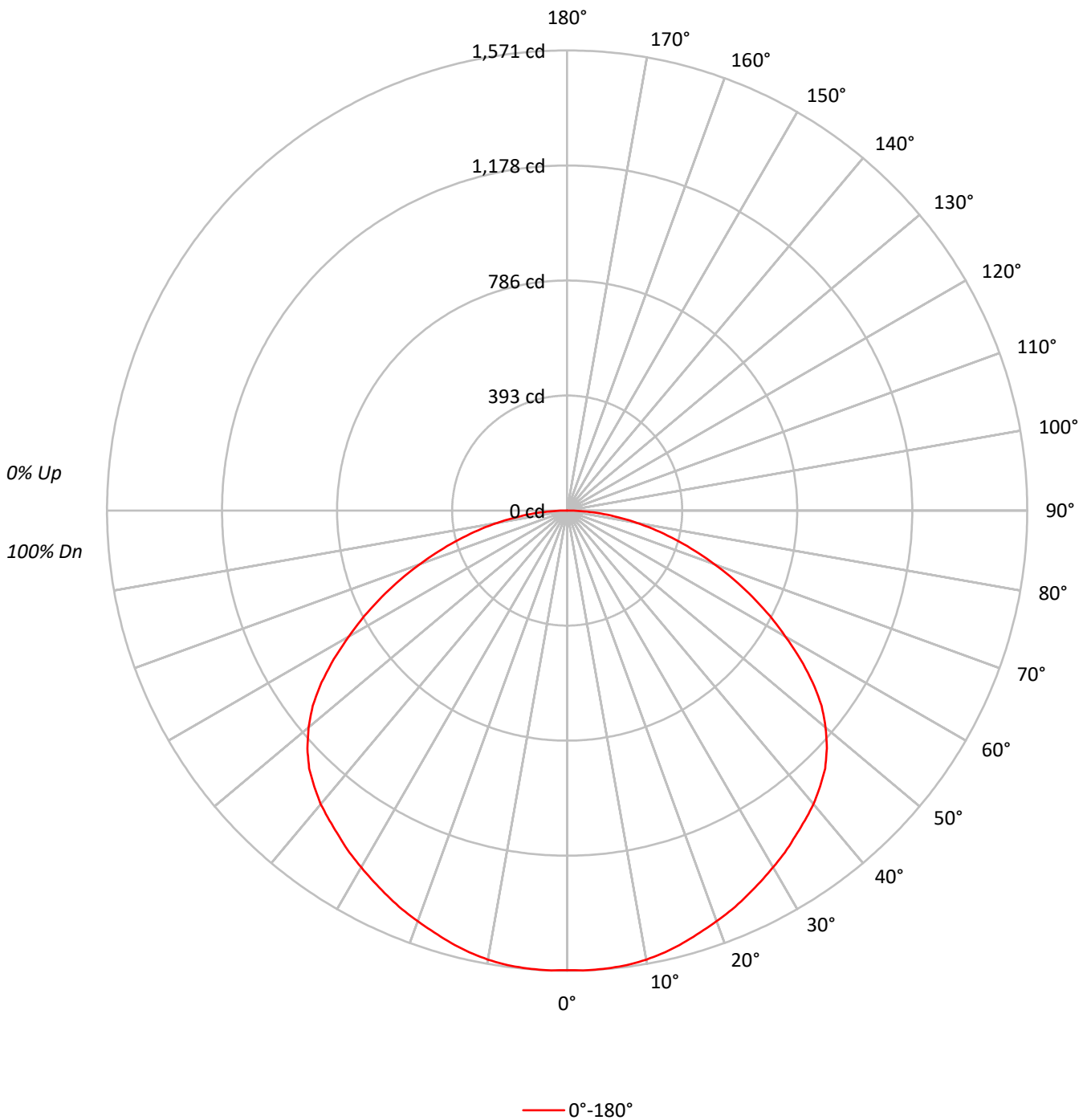
Lumens per Lamp: N/A
Luminaire Lumens: 5196.4 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	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°	12483
5°	12531
10°	12577
15°	12589
20°	12630
25°	12738
30°	12919
35°	13184
40°	13590
45°	14013
50°	14257
55°	14199
60°	13698
65°	13142
70°	12449
75°	11761
80°	11096
85°	10406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 14309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	2.9
10°-20°	431.9	8.3
20°-30°	670.2	12.9
30°-40°	851.9	16.4
40°-50°	958.0	18.4
50°-60°	910.2	17.5
60°-70°	691.4	13.3
70°-80°	406.3	7.8
80°-90°	127.1	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°	1251.5	24.1
0°-40°	2103.4	40.5
0°-60°	3971.6	76.4
0°-90°	5196.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5196.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1569	
5°	1569	149
15°	1528	432
25°	1451	670
35°	1358	852
45°	1246	958
55°	1024	910
65°	698	691
75°	383	406
85°	114	127
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1569.1
2.5°	1571.1
5°	1569.1
7.5°	1565.0
10°	1556.9
12.5°	1544.7
15°	1528.4
17.5°	1510.1
20°	1491.8
22.5°	1473.5
25°	1451.1
27.5°	1428.7
30°	1406.3
32.5°	1383.9
35°	1357.5
37.5°	1333.0
40°	1308.6
42.5°	1278.1
45°	1245.5
47.5°	1202.8
50°	1151.9
52.5°	1094.9
55°	1023.7
57.5°	944.3
60°	860.9
62.5°	781.5
65°	698.1
67.5°	616.7
70°	535.2
72.5°	457.9
75°	382.6
77.5°	311.4
80°	242.2
82.5°	175.0
85°	114.0
87.5°	57.0
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	21.59	23.28	21.95	23.60	23.91	21.59	23.28	21.95	23.60	23.91
	3H	23.39	24.92	23.76	25.25	25.61	23.39	24.92	23.76	25.25	25.61
	4H	24.08	25.53	24.48	25.88	26.25	24.08	25.53	24.48	25.88	26.25
	6H	24.63	25.98	25.04	26.34	26.73	24.63	25.98	25.04	26.34	26.73
	8H	24.82	26.11	25.25	26.50	26.90	24.82	26.11	25.25	26.50	26.90
	12H	24.97	26.20	25.40	26.58	27.01	24.97	26.20	25.40	26.58	27.01
4H	2H	22.23	23.68	22.62	24.02	24.40	22.23	23.68	22.62	24.02	24.40
	3H	24.25	25.47	24.66	25.87	26.27	24.25	25.47	24.66	25.87	26.27
	4H	25.08	26.19	25.51	26.60	27.04	25.08	26.19	25.51	26.60	27.04
	6H	25.77	26.74	26.22	27.18	27.63	25.77	26.74	26.22	27.18	27.63
	8H	26.02	26.93	26.48	27.37	27.83	26.02	26.93	26.48	27.37	27.83
	12H	26.22	27.04	26.70	27.51	27.98	26.22	27.04	26.70	27.51	27.98
8H	4H	25.42	26.33	25.88	26.77	27.23	25.42	26.33	25.88	26.77	27.23
	6H	26.24	27.00	26.73	27.49	27.96	26.24	27.00	26.73	27.49	27.96
	8H	26.58	27.26	27.08	27.76	28.25	26.58	27.26	27.08	27.76	28.25
	12H	26.86	27.47	27.37	27.96	28.52	26.86	27.47	27.37	27.96	28.52
12H	4H	25.46	26.29	25.94	26.76	27.23	25.46	26.29	25.94	26.76	27.23
	6H	26.32	27.00	26.82	27.51	27.99	26.32	27.00	26.82	27.51	27.99
	8H	26.71	27.32	27.22	27.81	28.37	26.71	27.32	27.22	27.81	28.37