

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: P866271

Luminaire Tested: PRLX-2002-M-930-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866271
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: Pentalux
Catalog Number: PRLX-2002-M-930-75L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

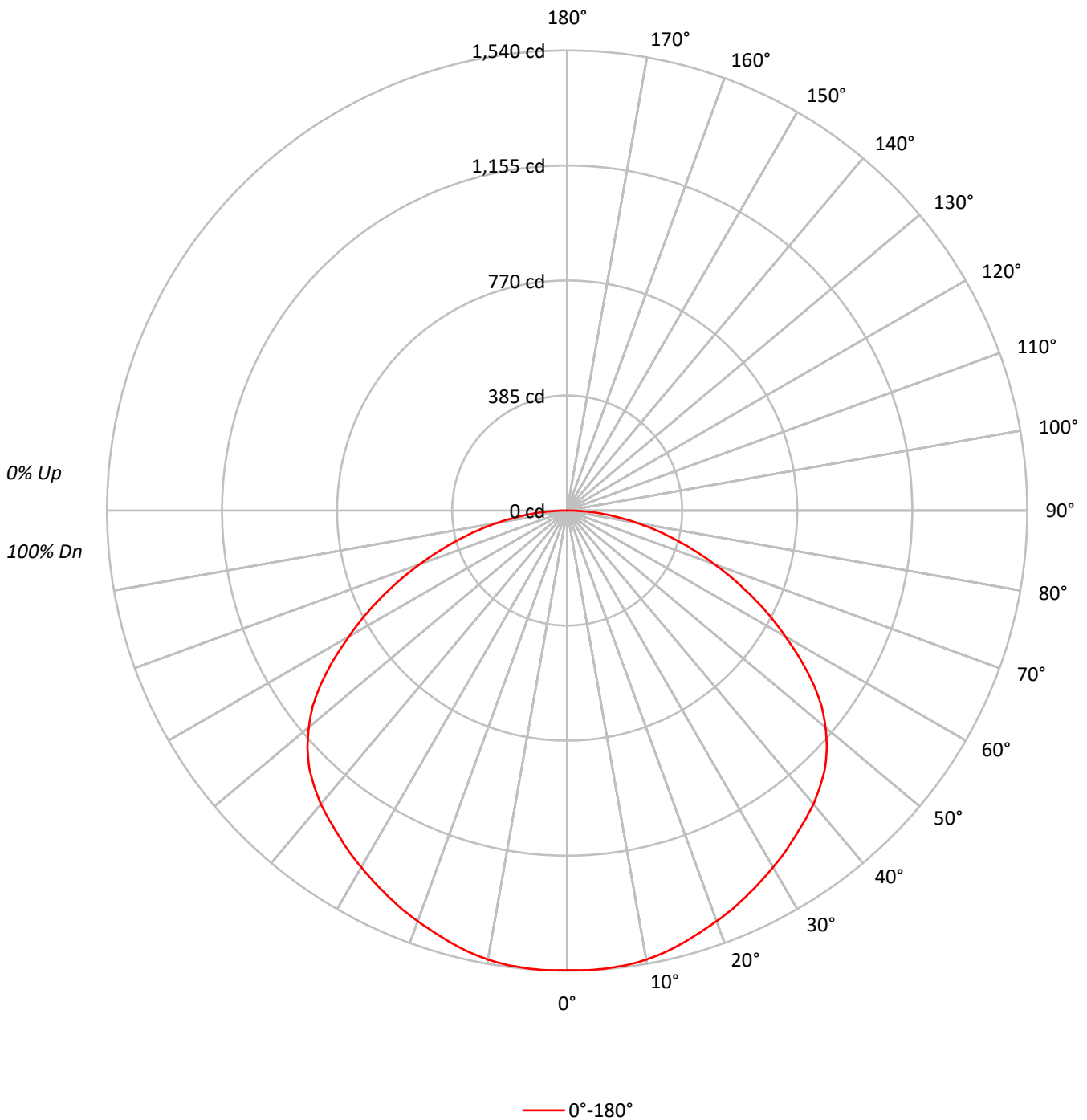
Lumens per Lamp: N/A
Luminaire Lumens: 5093.2 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	12235
5°	12282
10°	12328
15°	12339
20°	12379
25°	12485
30°	12663
35°	12922
40°	13320
45°	13735
50°	13974
55°	13918
60°	13426
65°	12880
70°	12203
75°	11527
80°	10877
85°	10196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 14025 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	2.9
10°-20°	423.3	8.3
20°-30°	656.9	12.9
30°-40°	834.9	16.4
40°-50°	939.0	18.4
50°-60°	892.1	17.5
60°-70°	677.6	13.3
70°-80°	398.2	7.8
80°-90°	124.6	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°	1226.6	24.1
0°-40°	2061.6	40.5
0°-60°	3892.7	76.4
0°-90°	5093.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1538	
5°	1538	146
15°	1498	423
25°	1422	657
35°	1330	835
45°	1221	939
55°	1003	892
65°	684	678
75°	375	398
85°	112	125
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1537.9
2.5°	1539.9
5°	1537.9
7.5°	1534.0
10°	1526.0
12.5°	1514.0
15°	1498.1
17.5°	1480.1
20°	1462.1
22.5°	1444.2
25°	1422.3
27.5°	1400.3
30°	1378.4
32.5°	1356.4
35°	1330.5
37.5°	1306.6
40°	1282.6
42.5°	1252.7
45°	1220.8
47.5°	1178.9
50°	1129.0
52.5°	1073.2
55°	1003.4
57.5°	925.6
60°	843.8
62.5°	766.0
65°	684.2
67.5°	604.4
70°	524.6
72.5°	448.8
75°	375.0
77.5°	305.2
80°	237.4
82.5°	171.5
85°	111.7
87.5°	55.9
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	21.52	23.21	21.88	23.53	23.84	21.52	23.21	21.88	23.53	23.84
	3H	23.32	24.86	23.69	25.18	25.54	23.32	24.86	23.69	25.18	25.54
	4H	24.01	25.46	24.41	25.81	26.18	24.01	25.46	24.41	25.81	26.18
	6H	24.56	25.91	24.97	26.27	26.66	24.56	25.91	24.97	26.27	26.66
	8H	24.75	26.04	25.18	26.43	26.83	24.75	26.04	25.18	26.43	26.83
	12H	24.90	26.13	25.33	26.51	26.94	24.90	26.13	25.33	26.51	26.94
4H	2H	22.16	23.61	22.55	23.95	24.33	22.16	23.61	22.55	23.95	24.33
	3H	24.18	25.40	24.59	25.80	26.20	24.18	25.40	24.59	25.80	26.20
	4H	25.01	26.12	25.44	26.53	26.97	25.01	26.12	25.44	26.53	26.97
	6H	25.70	26.67	26.15	27.11	27.56	25.70	26.67	26.15	27.11	27.56
	8H	25.95	26.86	26.41	27.30	27.76	25.95	26.86	26.41	27.30	27.76
	12H	26.15	26.97	26.63	27.44	27.91	26.15	26.97	26.63	27.44	27.91
8H	4H	25.35	26.26	25.81	26.70	27.16	25.35	26.26	25.81	26.70	27.16
	6H	26.17	26.94	26.67	27.42	27.89	26.17	26.94	26.67	27.42	27.89
	8H	26.51	27.19	27.01	27.69	28.18	26.51	27.19	27.01	27.69	28.18
	12H	26.79	27.40	27.30	27.89	28.45	26.79	27.40	27.30	27.89	28.45
12H	4H	25.40	26.22	25.87	26.69	27.16	25.40	26.22	25.87	26.69	27.16
	6H	26.25	26.93	26.75	27.44	27.92	26.25	26.93	26.75	27.44	27.92
	8H	26.64	27.25	27.15	27.74	28.30	26.64	27.25	27.15	27.74	28.30