

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: P867087

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-48L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

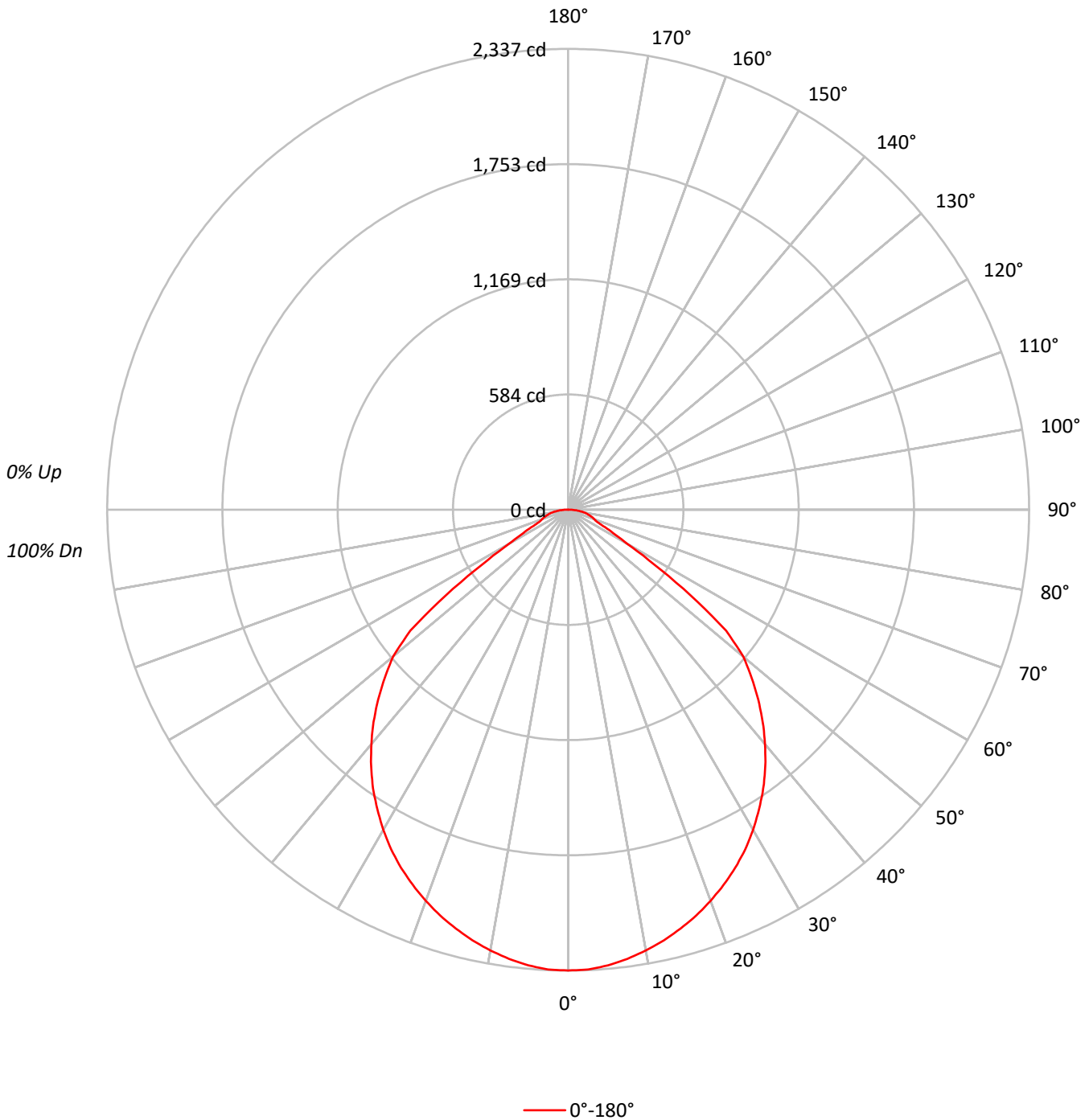
Lumens per Lamp: N/A
Luminaire Lumens: 4936.5 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11530
5°	11488
10°	11369
15°	11232
20°	11081
25°	10908
30°	10677
35°	10386
40°	9998
45°	9503
50°	8892
55°	6513
60°	3404
65°	2268
70°	2028
75°	2156
80°	2358
85°	2593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	4.5
10°-20°	620.2	12.6
20°-30°	922.3	18.7
30°-40°	1076.6	21.8
40°-50°	1048.9	21.2
50°-60°	672.0	13.6
60°-70°	209.2	4.2
70°-80°	119.2	2.4
80°-90°	48.3	1.0
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°	1762.4	35.7
0°-40°	2839.0	57.5
0°-60°	4559.9	92.4
0°-90°	4936.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4936.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2337	
5°	2320	220
15°	2199	620
25°	2004	922
35°	1724	1077
45°	1362	1049
55°	757	672
65°	194	209
75°	113	119
85°	46	48
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2337.0
2.5°	2333.5
5°	2319.6
7.5°	2297.7
10°	2269.3
12.5°	2237.5
15°	2199.0
17.5°	2158.0
20°	2110.4
22.5°	2059.3
25°	2003.8
27.5°	1942.7
30°	1874.2
32.5°	1801.2
35°	1724.4
37.5°	1641.4
40°	1552.3
42.5°	1460.2
45°	1362.0
47.5°	1261.5
50°	1158.5
52.5°	1008.3
55°	757.2
57.5°	512.6
60°	345.0
62.5°	257.2
65°	194.3
67.5°	154.1
70°	140.6
72.5°	127.9
75°	113.1
77.5°	98.7
80°	83.0
82.5°	65.5
85°	45.8
87.5°	24.5
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	16.04	17.50	16.41	17.81	18.13	16.04	17.50	16.41	17.81	18.13
	3H	16.46	17.75	16.84	18.08	18.44	16.46	17.75	16.84	18.08	18.44
	4H	16.74	17.95	17.15	18.30	18.68	16.74	17.95	17.15	18.30	18.68
	6H	17.06	18.17	17.48	18.54	18.93	17.06	18.17	17.48	18.54	18.93
	8H	17.21	18.26	17.64	18.65	19.06	17.21	18.26	17.64	18.65	19.06
	12H	17.34	18.34	17.77	18.72	19.15	17.34	18.34	17.77	18.72	19.15
4H	2H	16.10	17.31	16.50	17.66	18.04	16.10	17.31	16.50	17.66	18.04
	3H	16.72	17.70	17.13	18.10	18.51	16.72	17.70	17.13	18.10	18.51
	4H	17.14	18.02	17.58	18.44	18.88	17.14	18.02	17.58	18.44	18.88
	6H	17.63	18.40	18.09	18.84	19.30	17.63	18.40	18.09	18.84	19.30
	8H	17.85	18.57	18.32	19.01	19.48	17.85	18.57	18.32	19.01	19.48
	12H	18.06	18.69	18.54	19.17	19.65	18.06	18.69	18.54	19.17	19.65
8H	4H	17.29	18.00	17.75	18.45	18.91	17.29	18.00	17.75	18.45	18.91
	6H	17.92	18.51	18.42	19.00	19.48	17.92	18.51	18.42	19.00	19.48
	8H	18.24	18.77	18.75	19.28	19.77	18.24	18.77	18.75	19.28	19.77
	12H	18.54	19.02	19.06	19.52	20.08	18.54	19.02	19.06	19.52	20.08
12H	4H	17.30	17.94	17.78	18.42	18.89	17.30	17.94	17.78	18.42	18.89
	6H	17.96	18.50	18.48	19.01	19.50	17.96	18.50	18.48	19.01	19.50
	8H	18.35	18.83	18.86	19.32	19.89	18.35	18.83	18.86	19.32	19.89