

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: P867023

Luminaire Tested: PRLX-2002-L-930-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867023
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: Prenalux
Catalog Number: PRLX-2002-L-930-48L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

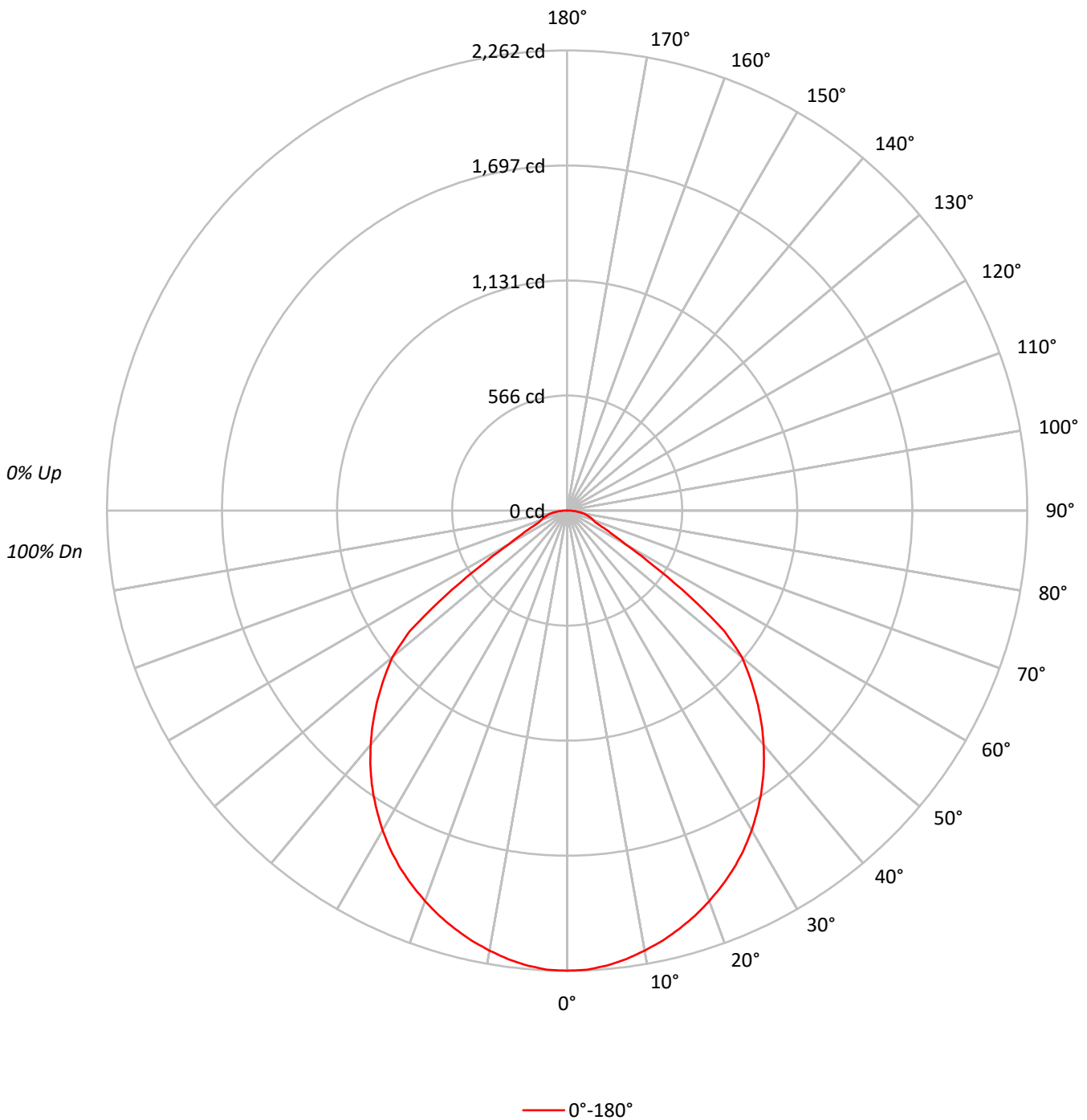
Lumens per Lamp: N/A
Luminaire Lumens: 4777.8 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	11159
5°	11118
10°	11003
15°	10871
20°	10724
25°	10558
30°	10334
35°	10052
40°	9676
45°	9197
50°	8606
55°	6303
60°	3295
65°	2196
70°	1963
75°	2087
80°	2282
85°	2513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	4.5
10°-20°	600.3	12.6
20°-30°	892.7	18.7
30°-40°	1042.0	21.8
40°-50°	1015.1	21.2
50°-60°	650.4	13.6
60°-70°	202.5	4.2
70°-80°	115.4	2.4
80°-90°	46.7	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°	1705.7	35.7
0°-40°	2747.7	57.5
0°-60°	4413.2	92.4
0°-90°	4777.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4777.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2262	
5°	2245	213
15°	2128	600
25°	1939	893
35°	1669	1042
45°	1318	1015
55°	733	650
65°	188	203
75°	110	115
85°	44	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2261.8
2.5°	2258.5
5°	2244.9
7.5°	2223.8
10°	2196.3
12.5°	2165.5
15°	2128.3
17.5°	2088.6
20°	2042.5
22.5°	1993.1
25°	1939.4
27.5°	1880.2
30°	1813.9
32.5°	1743.3
35°	1668.9
37.5°	1588.6
40°	1502.4
42.5°	1413.2
45°	1318.1
47.5°	1220.9
50°	1121.2
52.5°	975.8
55°	732.8
57.5°	496.2
60°	333.9
62.5°	248.9
65°	188.1
67.5°	149.2
70°	136.1
72.5°	123.8
75°	109.5
77.5°	95.5
80°	80.3
82.5°	63.4
85°	44.4
87.5°	23.7
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	15.93	17.39	16.30	17.70	18.01	15.93	17.39	16.30	17.70	18.01
	3H	16.35	17.64	16.73	17.97	18.33	16.35	17.64	16.73	17.97	18.33
	4H	16.63	17.84	17.03	18.19	18.57	16.63	17.84	17.03	18.19	18.57
	6H	16.95	18.06	17.36	18.43	18.82	16.95	18.06	17.36	18.43	18.82
	8H	17.10	18.15	17.53	18.54	18.94	17.10	18.15	17.53	18.54	18.94
	12H	17.22	18.23	17.65	18.61	19.04	17.22	18.23	17.65	18.61	19.04
4H	2H	15.99	17.19	16.39	17.54	17.92	15.99	17.19	16.39	17.54	17.92
	3H	16.61	17.59	17.02	17.99	18.39	16.61	17.59	17.02	17.99	18.39
	4H	17.03	17.91	17.46	18.33	18.77	17.03	17.91	17.46	18.33	18.77
	6H	17.52	18.28	17.98	18.73	19.19	17.52	18.28	17.98	18.73	19.19
	8H	17.74	18.46	18.21	18.90	19.37	17.74	18.46	18.21	18.90	19.37
	12H	17.94	18.58	18.43	19.06	19.53	17.94	18.58	18.43	19.06	19.53
8H	4H	17.17	17.89	17.64	18.33	18.80	17.17	17.89	17.64	18.33	18.80
	6H	17.81	18.40	18.30	18.89	19.37	17.81	18.40	18.30	18.89	19.37
	8H	18.12	18.66	18.64	19.17	19.66	18.12	18.66	18.64	19.17	19.66
	12H	18.43	18.91	18.94	19.41	19.97	18.43	18.91	18.94	19.41	19.97
12H	4H	17.19	17.82	17.67	18.31	18.78	17.19	17.82	17.67	18.31	18.78
	6H	17.85	18.39	18.37	18.90	19.39	17.85	18.39	18.37	18.90	19.39
	8H	18.24	18.72	18.75	19.21	19.78	18.24	18.72	18.75	19.21	19.78