

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: P866893

Luminaire Tested: PRLX-2001-L-940-48L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-48L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

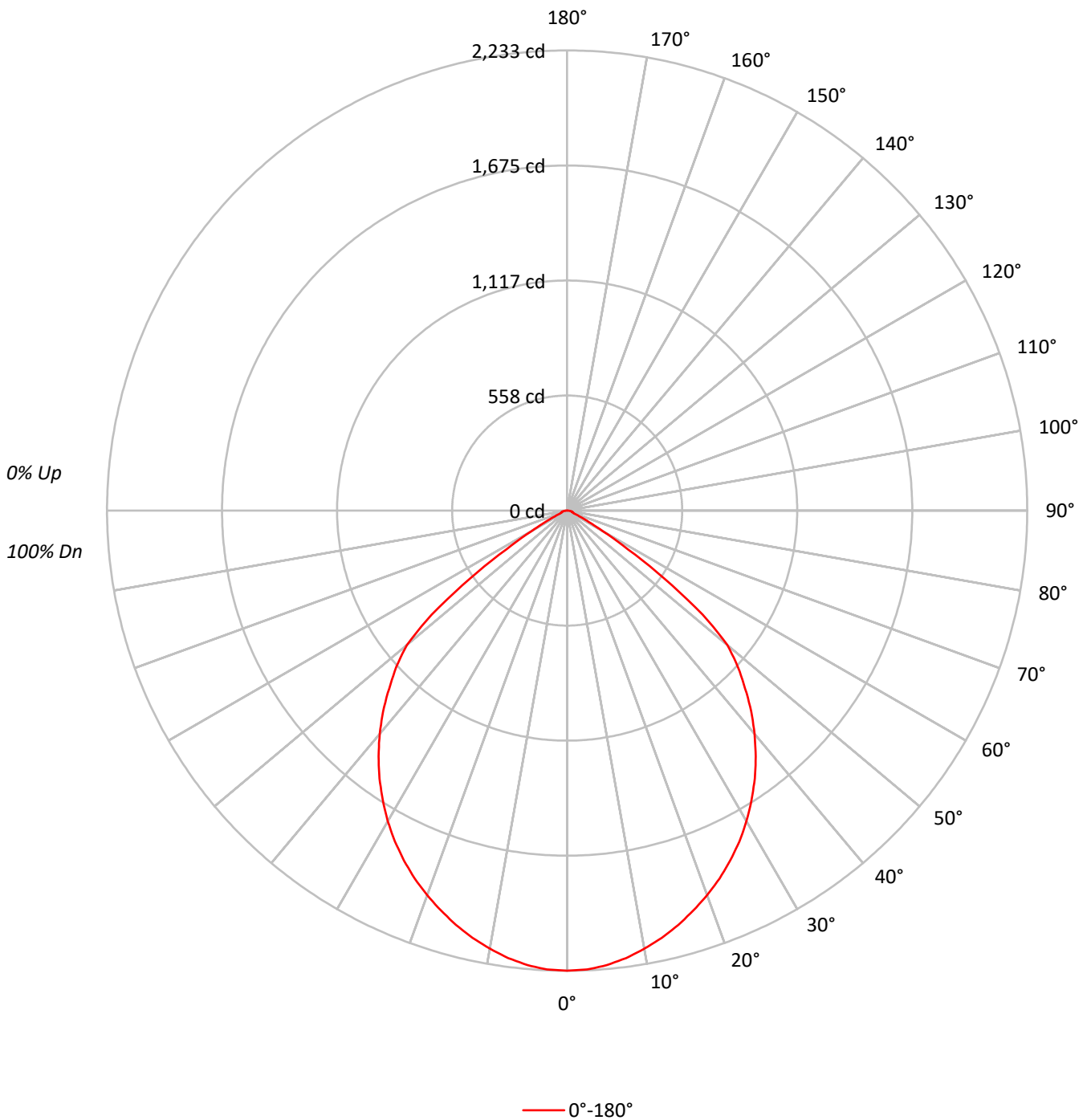
Lumens per Lamp: N/A
Luminaire Lumens: 4232.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12206
5°	12148
10°	11982
15°	11781
20°	11555
25°	11299
30°	10987
35°	10591
40°	10095
45°	9445
50°	8634
55°	5479
60°	2174
65°	832
70°	503
75°	549
80°	617
85°	684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	5.0
10°-20°	586.6	13.9
20°-30°	862.2	20.4
30°-40°	990.7	23.4
40°-50°	941.2	22.2
50°-60°	521.9	12.3
60°-70°	81.5	1.9
70°-80°	27.3	0.6
80°-90°	11.3	0.3
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°	1658.3	39.2
0°-40°	2649.0	62.6
0°-60°	4112.2	97.2
0°-90°	4232.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2233	
5°	2214	210
15°	2082	587
25°	1873	862
35°	1587	991
45°	1222	941
55°	575	522
65°	64	81
75°	26	27
85°	11	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2232.8
2.5°	2229.2
5°	2213.7
7.5°	2190.4
10°	2158.5
12.5°	2123.4
15°	2081.5
17.5°	2035.4
20°	1986.2
22.5°	1932.9
25°	1873.2
27.5°	1810.2
30°	1740.5
32.5°	1665.7
35°	1586.9
37.5°	1503.4
40°	1414.6
42.5°	1322.0
45°	1221.7
47.5°	1124.6
50°	1015.2
52.5°	828.8
55°	574.8
57.5°	349.6
60°	198.8
62.5°	118.1
65°	64.3
67.5°	35.1
70°	31.5
72.5°	28.7
75°	26.0
77.5°	23.2
80°	19.6
82.5°	15.5
85°	10.9
87.5°	5.5
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	14.32	15.70	14.68	16.01	16.32	14.32	15.70	14.68	16.01	16.32
	3H	14.26	15.47	14.64	15.80	16.16	14.26	15.47	14.64	15.80	16.16
	4H	14.23	15.36	14.64	15.71	16.09	14.23	15.36	14.64	15.71	16.09
	6H	14.22	15.25	14.63	15.62	16.01	14.22	15.25	14.63	15.62	16.01
	8H	14.21	15.19	14.64	15.58	15.98	14.21	15.19	14.64	15.58	15.98
	12H	14.20	15.13	14.63	15.51	15.94	14.20	15.13	14.63	15.51	15.94
4H	2H	14.19	15.31	14.59	15.66	16.05	14.19	15.31	14.59	15.66	16.05
	3H	14.16	15.06	14.57	15.47	15.87	14.16	15.06	14.57	15.47	15.87
	4H	14.15	14.95	14.58	15.37	15.82	14.15	14.95	14.58	15.37	15.82
	6H	14.17	14.87	14.64	15.31	15.78	14.17	14.87	14.64	15.31	15.78
	8H	14.17	14.82	14.64	15.27	15.74	14.17	14.82	14.64	15.27	15.74
	12H	14.18	14.75	14.67	15.24	15.71	14.18	14.75	14.67	15.24	15.71
8H	4H	14.06	14.71	14.53	15.15	15.62	14.06	14.71	14.53	15.15	15.62
	6H	14.10	14.63	14.60	15.13	15.61	14.10	14.63	14.60	15.13	15.61
	8H	14.12	14.61	14.64	15.12	15.61	14.12	14.61	14.64	15.12	15.61
	12H	14.16	14.59	14.67	15.09	15.66	14.16	14.59	14.67	15.09	15.66
12H	4H	14.02	14.60	14.51	15.08	15.55	14.02	14.60	14.51	15.08	15.55
	6H	14.06	14.54	14.58	15.06	15.55	14.06	14.54	14.58	15.06	15.55
	8H	14.11	14.54	14.62	15.04	15.61	14.11	14.54	14.62	15.04	15.61