

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: P865961

Luminaire Tested: PRLX-2001-M-930-07L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-07L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

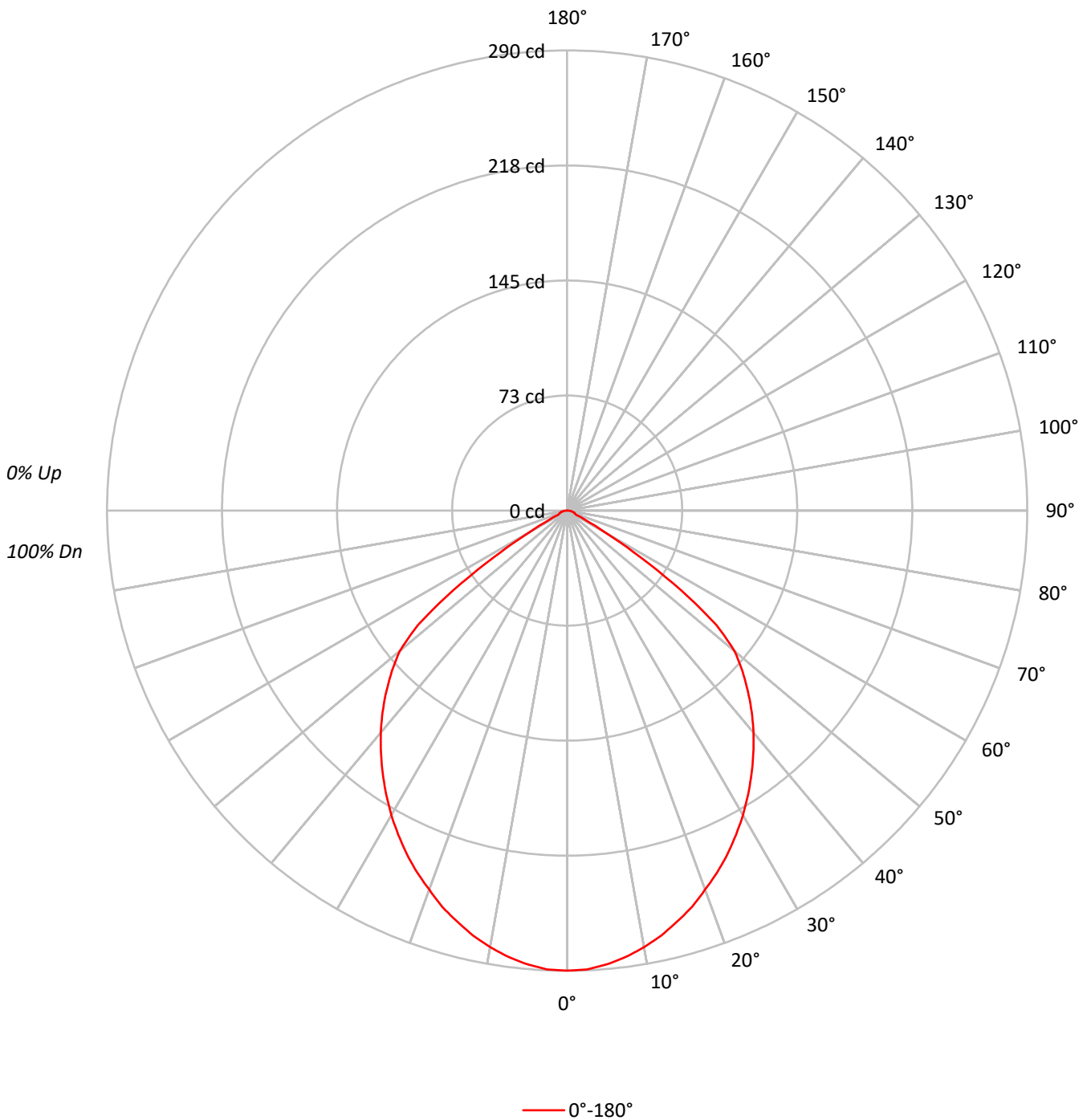
Lumens per Lamp: N/A
Luminaire Lumens: 556.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2460
5°	2446
10°	2408
15°	2355
20°	2296
25°	2238
30°	2171
35°	2099
40°	2024
45°	1933
50°	1819
55°	1300
60°	484
65°	129
70°	127
75°	134
80°	147
85°	146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	4.9
10°-20°	75.5	13.6
20°-30°	110.0	19.8
30°-40°	126.7	22.8
40°-50°	124.1	22.3
50°-60°	76.2	13.7
60°-70°	10.4	1.9
70°-80°	4.3	0.8
80°-90°	1.7	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°	212.7	38.2
0°-40°	339.3	61.0
0°-60°	539.6	97.1
0°-90°	556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	556.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	290	
5°	287	27
15°	268	76
25°	239	110
35°	203	127
45°	161	124
55°	88	76
65°	6	10
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	289.9
2.5°	289.4
5°	287.1
7.5°	283.7
10°	279.4
12.5°	274.3
15°	268.1
17.5°	261.8
20°	254.2
22.5°	246.9
25°	239.0
27.5°	230.4
30°	221.6
32.5°	212.2
35°	202.6
37.5°	192.7
40°	182.7
42.5°	172.2
45°	161.1
47.5°	149.8
50°	137.8
52.5°	118.5
55°	87.9
57.5°	54.6
60°	28.5
62.5°	13.9
65°	6.4
67.5°	5.3
70°	5.1
72.5°	4.7
75°	4.1
77.5°	3.6
80°	3.0
82.5°	2.3
85°	1.5
87.5°	0.8
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	9.95	11.34	10.31	11.65	11.97	9.95	11.34	10.31	11.65	11.97
	3H	9.89	11.11	10.27	11.44	11.81	9.89	11.11	10.27	11.44	11.81
	4H	9.87	11.01	10.27	11.36	11.74	9.87	11.01	10.27	11.36	11.74
	6H	9.85	10.90	10.27	11.27	11.66	9.85	10.90	10.27	11.27	11.66
	8H	9.84	10.83	10.27	11.22	11.63	9.84	10.83	10.27	11.22	11.63
	12H	9.83	10.77	10.26	11.16	11.59	9.83	10.77	10.26	11.16	11.59
4H	2H	9.78	10.92	10.18	11.27	11.65	9.78	10.92	10.18	11.27	11.65
	3H	9.76	10.68	10.17	11.08	11.48	9.76	10.68	10.17	11.08	11.48
	4H	9.76	10.57	10.19	10.99	11.43	9.76	10.57	10.19	10.99	11.43
	6H	9.78	10.49	10.24	10.93	11.40	9.78	10.49	10.24	10.93	11.40
	8H	9.78	10.44	10.25	10.88	11.35	9.78	10.44	10.25	10.88	11.35
	12H	9.78	10.36	10.26	10.84	11.32	9.78	10.36	10.26	10.84	11.32
8H	4H	9.67	10.33	10.14	10.77	11.25	9.67	10.33	10.14	10.77	11.25
	6H	9.71	10.25	10.21	10.75	11.23	9.71	10.25	10.21	10.75	11.23
	8H	9.72	10.22	10.24	10.73	11.22	9.72	10.22	10.24	10.73	11.22
	12H	9.75	10.19	10.26	10.69	11.25	9.75	10.19	10.26	10.69	11.25
12H	4H	9.63	10.22	10.12	10.70	11.17	9.63	10.22	10.12	10.70	11.17
	6H	9.66	10.16	10.18	10.67	11.16	9.66	10.16	10.18	10.67	11.16
	8H	9.71	10.15	10.22	10.65	11.22	9.71	10.15	10.22	10.65	11.22