

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: P865920

Luminaire Tested: PRLX-2001-M-927-35L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-35L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

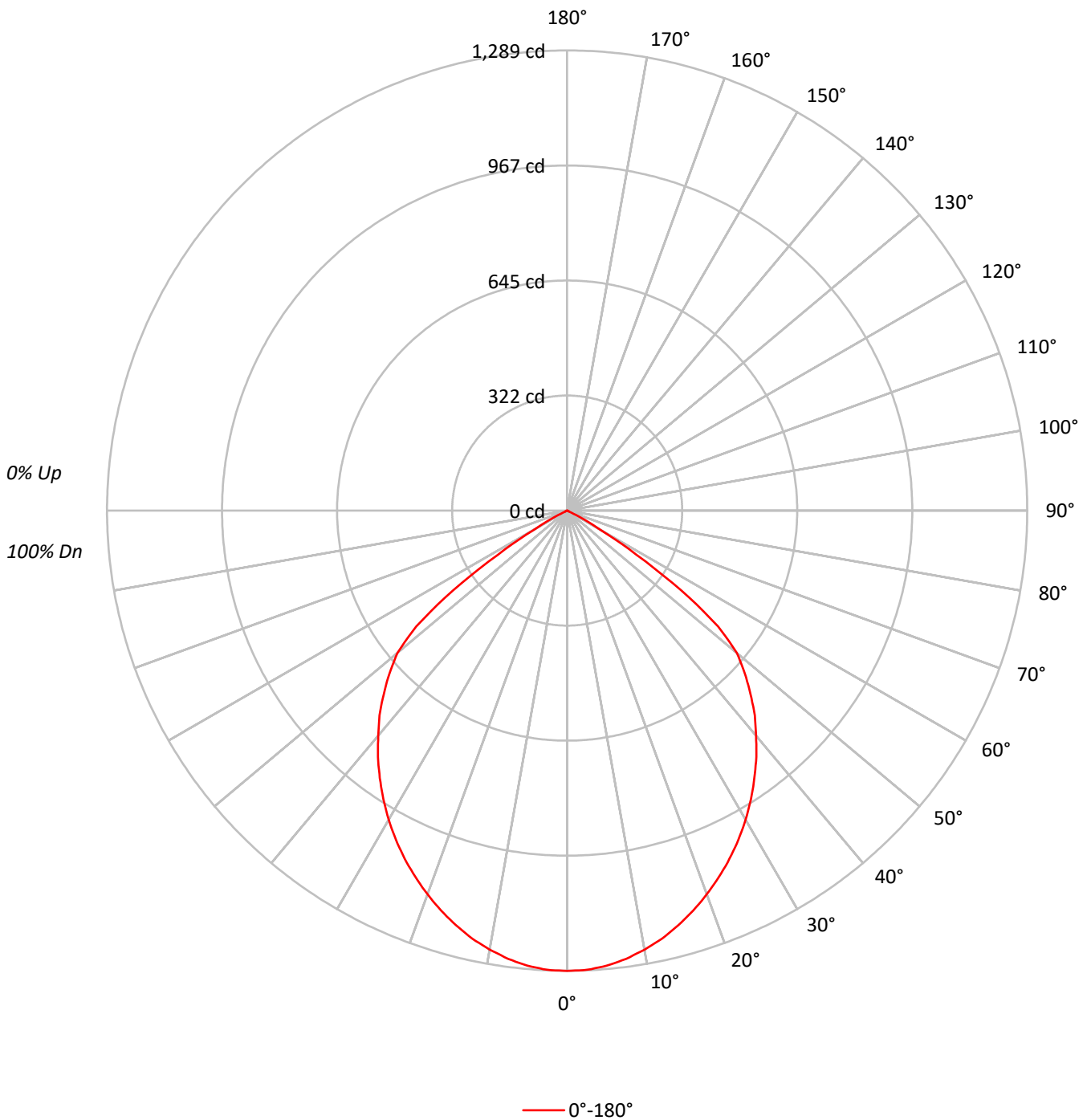
Lumens per Lamp: N/A
Luminaire Lumens: 2452.9 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: 0.5 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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	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°	10942
5°	10901
10°	10759
15°	10564
20°	10329
25°	10078
30°	9798
35°	9476
40°	9119
45°	8718
50°	8194
55°	5780
60°	1824
65°	124
70°	89
75°	89
80°	88
85°	88

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8718 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	4.9
10°-20°	338.8	13.8
20°-30°	495.4	20.2
30°-40°	571.8	23.3
40°-50°	559.5	22.8
50°-60°	335.7	13.7
60°-70°	26.2	1.1
70°-80°	3.1	0.1
80°-90°	1.2	0.0
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°	955.3	38.9
0°-40°	1527.1	62.3
0°-60°	2422.4	98.8
0°-90°	2452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1289	
5°	1280	121
15°	1202	339
25°	1076	495
35°	915	572
45°	726	560
55°	391	336
65°	6	26
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1289.4
2.5°	1287.7
5°	1279.7
7.5°	1266.4
10°	1248.6
12.5°	1228.2
15°	1202.4
17.5°	1174.9
20°	1143.8
22.5°	1111.0
25°	1076.3
27.5°	1039.0
30°	999.9
32.5°	958.2
35°	914.7
37.5°	870.3
40°	823.2
42.5°	777.9
45°	726.4
47.5°	674.9
50°	620.7
52.5°	532.8
55°	390.7
57.5°	230.0
60°	107.5
62.5°	42.6
65°	6.2
67.5°	3.6
70°	3.6
72.5°	3.6
75°	2.7
77.5°	2.7
80°	1.8
82.5°	1.8
85°	0.9
87.5°	0.9
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	14.78	16.15	15.14	16.47	16.78	14.78	16.15	15.14	16.47	16.78
	3H	14.66	15.86	15.04	16.19	16.56	14.66	15.86	15.04	16.19	16.56
	4H	14.59	15.71	14.99	16.06	16.44	14.59	15.71	14.99	16.06	16.44
	6H	14.52	15.54	14.93	15.91	16.30	14.52	15.54	14.93	15.91	16.30
	8H	14.47	15.44	14.90	15.83	16.24	14.47	15.44	14.90	15.83	16.24
	12H	14.43	15.36	14.87	15.74	16.17	14.43	15.36	14.87	15.74	16.17
4H	2H	14.59	15.71	14.99	16.06	16.44	14.59	15.71	14.99	16.06	16.44
	3H	14.47	15.36	14.88	15.77	16.17	14.47	15.36	14.88	15.77	16.17
	4H	14.39	15.18	14.82	15.60	16.04	14.39	15.18	14.82	15.60	16.04
	6H	14.31	14.99	14.77	15.44	15.90	14.31	14.99	14.77	15.44	15.90
	8H	14.25	14.89	14.72	15.34	15.81	14.25	14.89	14.72	15.34	15.81
	12H	14.20	14.77	14.69	15.25	15.73	14.20	14.77	14.69	15.25	15.73
8H	4H	14.25	14.89	14.72	15.33	15.81	14.25	14.89	14.72	15.33	15.81
	6H	14.14	14.67	14.65	15.17	15.65	14.14	14.67	14.65	15.17	15.65
	8H	14.08	14.56	14.60	15.07	15.56	14.08	14.56	14.60	15.07	15.56
	12H	14.03	14.46	14.54	14.95	15.52	14.03	14.46	14.54	14.95	15.52
12H	4H	14.20	14.77	14.69	15.25	15.72	14.20	14.77	14.69	15.25	15.72
	6H	14.07	14.55	14.60	15.07	15.56	14.07	14.55	14.60	15.07	15.56
	8H	14.02	14.46	14.54	14.95	15.52	14.02	14.46	14.54	14.95	15.52