

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: P866056

Luminaire Tested: PRLX-2001-M-935-45L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866056
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-935-45L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

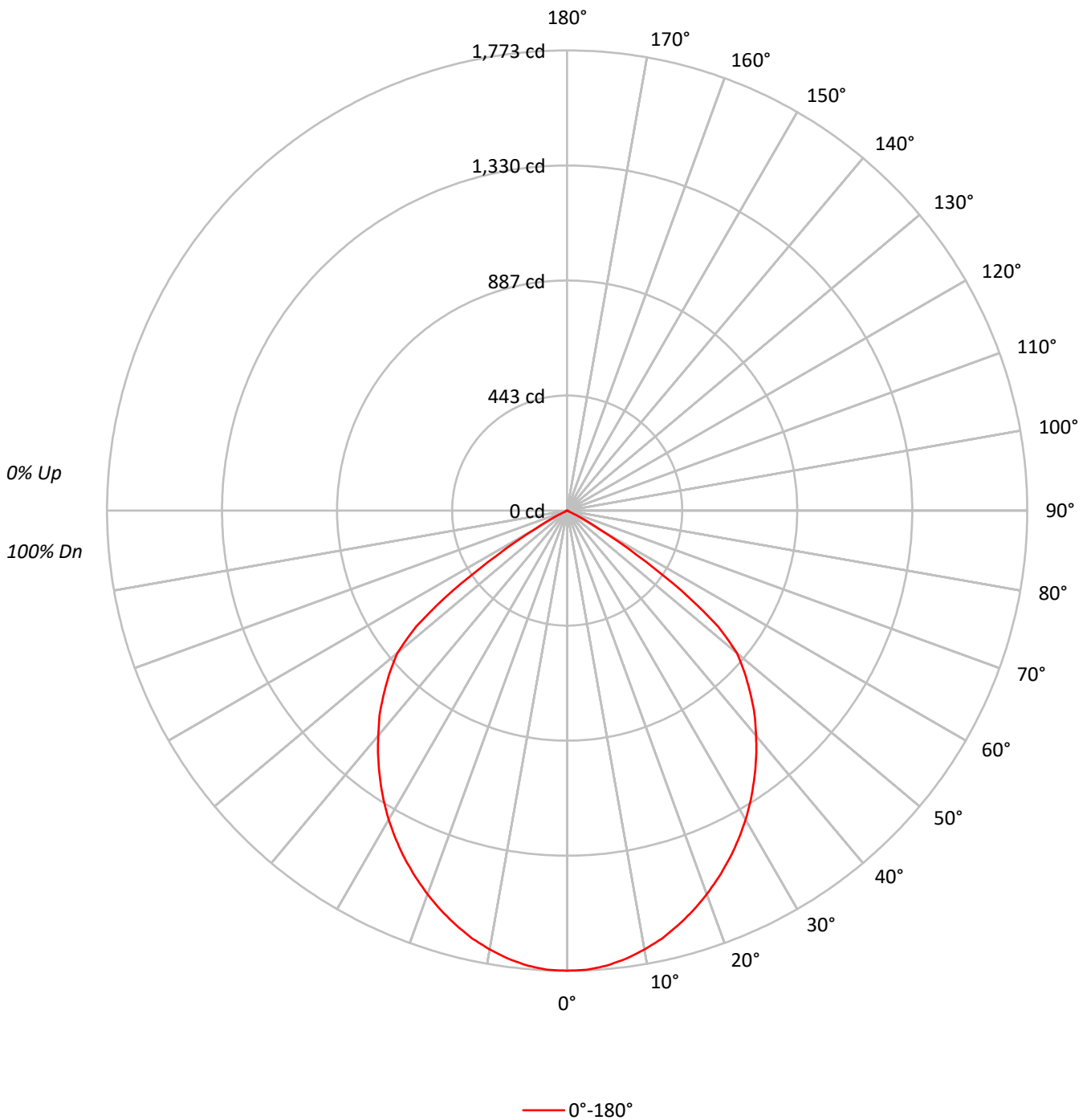
Lumens per Lamp: N/A
Luminaire Lumens: 3372.8 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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°	15046
5°	14989
10°	14794
15°	14526
20°	14203
25°	13858
30°	13473
35°	13029
40°	12540
45°	11988
50°	11268
55°	7949
60°	2508
65°	171
70°	122
75°	121
80°	117
85°	117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	4.9
10°-20°	465.8	13.8
20°-30°	681.2	20.2
30°-40°	786.3	23.3
40°-50°	769.4	22.8
50°-60°	461.6	13.7
60°-70°	36.0	1.1
70°-80°	4.2	0.1
80°-90°	1.6	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°	1313.6	38.9
0°-40°	2099.9	62.3
0°-60°	3330.9	98.8
0°-90°	3372.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1773	
5°	1760	167
15°	1653	466
25°	1480	681
35°	1258	786
45°	999	769
55°	537	462
65°	8	36
75°	4	4
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1773.0
2.5°	1770.6
5°	1759.6
7.5°	1741.3
10°	1716.9
12.5°	1688.8
15°	1653.4
17.5°	1615.5
20°	1572.8
22.5°	1527.6
25°	1480.0
27.5°	1428.7
30°	1375.0
32.5°	1317.6
35°	1257.7
37.5°	1196.7
40°	1132.0
42.5°	1069.7
45°	998.9
47.5°	928.0
50°	853.5
52.5°	732.7
55°	537.3
57.5°	316.3
60°	147.8
62.5°	58.6
65°	8.5
67.5°	4.9
70°	4.9
72.5°	4.9
75°	3.7
77.5°	3.7
80°	2.4
82.5°	2.4
85°	1.2
87.5°	1.2
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	15.89	17.26	16.25	17.57	17.89	15.89	17.26	16.25	17.57	17.89
	3H	15.76	16.97	16.14	17.30	17.66	15.76	16.97	16.14	17.30	17.66
	4H	15.70	16.81	16.10	17.16	17.55	15.70	16.81	16.10	17.16	17.55
	6H	15.62	16.65	16.04	17.02	17.41	15.62	16.65	16.04	17.02	17.41
	8H	15.58	16.55	16.01	16.94	17.35	15.58	16.55	16.01	16.94	17.35
	12H	15.54	16.47	15.97	16.85	17.28	15.54	16.47	15.97	16.85	17.28
4H	2H	15.70	16.81	16.10	17.16	17.55	15.70	16.81	16.10	17.16	17.55
	3H	15.58	16.47	15.99	16.88	17.28	15.58	16.47	15.99	16.88	17.28
	4H	15.49	16.29	15.93	16.71	17.15	15.49	16.29	15.93	16.71	17.15
	6H	15.42	16.10	15.88	16.54	17.01	15.42	16.10	15.88	16.54	17.01
	8H	15.36	16.00	15.83	16.44	16.92	15.36	16.00	15.83	16.44	16.92
	12H	15.31	15.88	15.80	16.36	16.83	15.31	15.88	15.80	16.36	16.83
8H	4H	15.36	15.99	15.82	16.44	16.91	15.36	15.99	15.82	16.44	16.91
	6H	15.25	15.78	15.75	16.27	16.76	15.25	15.78	15.75	16.27	16.76
	8H	15.18	15.66	15.70	16.18	16.67	15.18	15.66	15.70	16.18	16.67
	12H	15.13	15.56	15.65	16.06	16.63	15.13	15.56	15.65	16.06	16.63
12H	4H	15.31	15.87	15.79	16.36	16.83	15.31	15.87	15.79	16.36	16.83
	6H	15.18	15.66	15.70	16.18	16.67	15.18	15.66	15.70	16.18	16.67
	8H	15.13	15.56	15.64	16.06	16.63	15.13	15.56	15.64	16.06	16.63