

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: P866047

Luminaire Tested: PRLX-2001-M-935-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-935-35L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

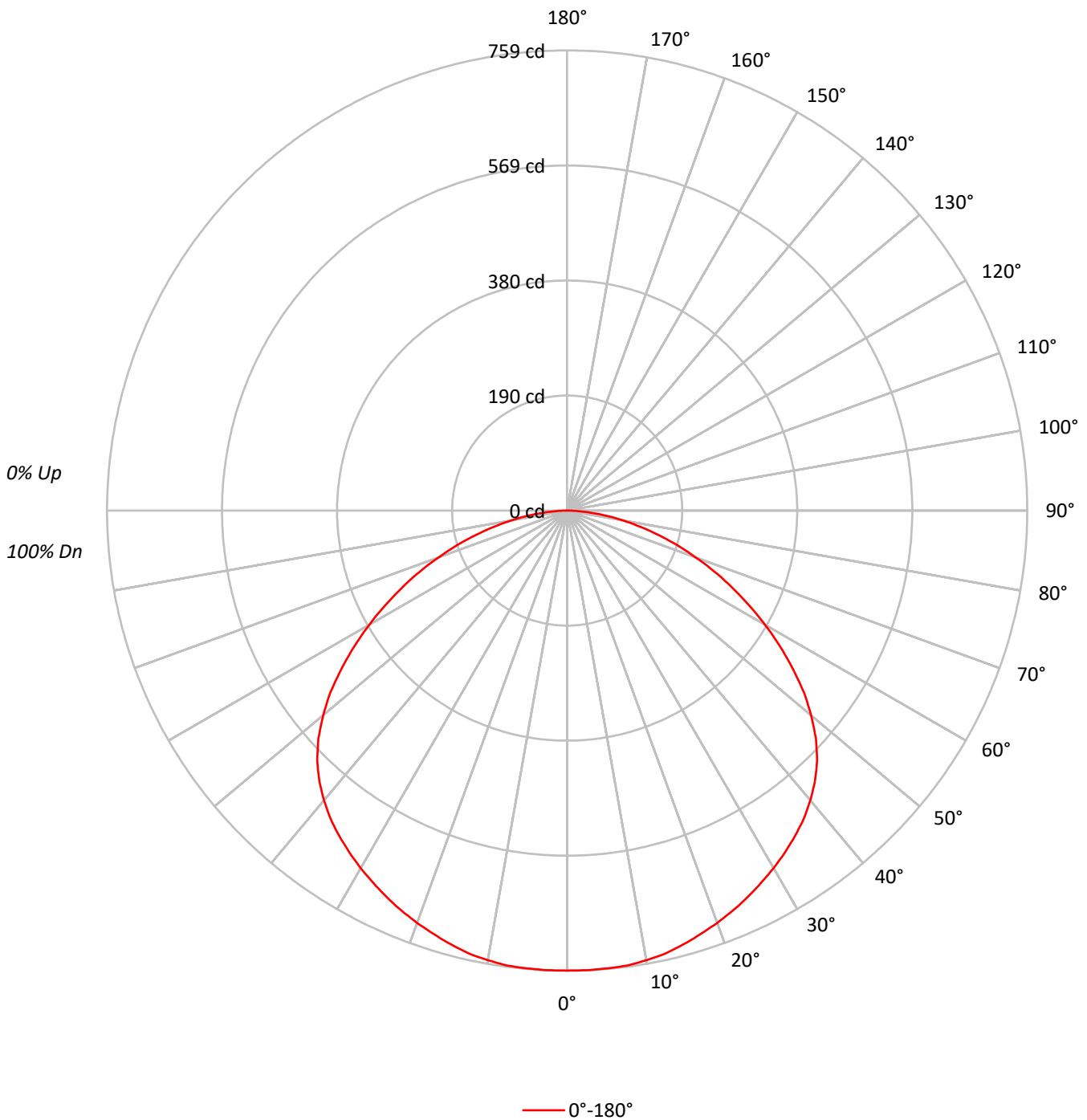
Lumens per Lamp: N/A
Luminaire Lumens: 2379.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6439
5°	6456
10°	6489
15°	6508
20°	6535
25°	6590
30°	6673
35°	6789
40°	6912
45°	6998
50°	6934
55°	6717
60°	6398
65°	6026
70°	5585
75°	5138
80°	4550
85°	3700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.0
10°-20°	209.3	8.8
20°-30°	324.9	13.7
30°-40°	410.4	17.3
40°-50°	448.0	18.8
50°-60°	405.4	17.0
60°-70°	297.4	12.5
70°-80°	166.2	7.0
80°-90°	45.2	1.9
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°	606.4	25.5
0°-40°	1016.8	42.7
0°-60°	1870.2	78.6
0°-90°	2379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2379.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	759	
5°	758	72
15°	741	209
25°	704	325
35°	655	410
45°	583	448
55°	454	405
65°	300	297
75°	157	166
85°	38	45
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	758.8
2.5°	758.8
5°	757.9
7.5°	756.9
10°	753.1
12.5°	748.4
15°	740.8
17.5°	732.3
20°	723.7
22.5°	714.2
25°	703.8
27.5°	692.4
30°	681.0
32.5°	668.6
35°	655.3
37.5°	641.1
40°	624.0
42.5°	605.0
45°	583.1
47.5°	556.5
50°	525.2
52.5°	492.0
55°	454.0
57.5°	416.0
60°	377.0
62.5°	338.1
65°	300.1
67.5°	263.1
70°	225.1
72.5°	190.9
75°	156.7
77.5°	123.5
80°	93.1
82.5°	64.6
85°	38.0
87.5°	17.1
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	18.87	20.53	19.23	20.85	21.16	18.87	20.53	19.23	20.85	21.16
	3H	20.56	22.06	20.94	22.39	22.75	20.56	22.06	20.94	22.39	22.75
	4H	21.19	22.61	21.59	22.95	23.33	21.19	22.61	21.59	22.95	23.33
	6H	21.64	22.96	22.05	23.32	23.71	21.64	22.96	22.05	23.32	23.71
	8H	21.79	23.04	22.21	23.43	23.83	21.79	23.04	22.21	23.43	23.83
	12H	21.88	23.08	22.31	23.46	23.89	21.88	23.08	22.31	23.46	23.89
4H	2H	19.47	20.89	19.87	21.24	21.61	19.47	20.89	19.87	21.24	21.61
	3H	21.38	22.57	21.79	22.97	23.37	21.38	22.57	21.79	22.97	23.37
	4H	22.14	23.21	22.57	23.63	24.06	22.14	23.21	22.57	23.63	24.06
	6H	22.72	23.66	23.17	24.10	24.55	22.72	23.66	23.17	24.10	24.55
	8H	22.91	23.79	23.37	24.23	24.70	22.91	23.79	23.37	24.23	24.70
	12H	23.04	23.83	23.52	24.31	24.78	23.04	23.83	23.52	24.31	24.78
8H	4H	22.43	23.32	22.89	23.76	24.22	22.43	23.32	22.89	23.76	24.22
	6H	23.13	23.86	23.62	24.35	24.83	23.13	23.86	23.62	24.35	24.83
	8H	23.39	24.05	23.90	24.55	25.04	23.39	24.05	23.90	24.55	25.04
	12H	23.59	24.17	24.10	24.66	25.22	23.59	24.17	24.10	24.66	25.22
12H	4H	22.47	23.26	22.95	23.73	24.20	22.47	23.26	22.95	23.73	24.20
	6H	23.18	23.84	23.69	24.35	24.83	23.18	23.84	23.69	24.35	24.83
	8H	23.50	24.08	24.00	24.57	25.13	23.50	24.08	24.00	24.57	25.13