

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: P866109

Luminaire Tested: PRLX-2001-M-940-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-940-35L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

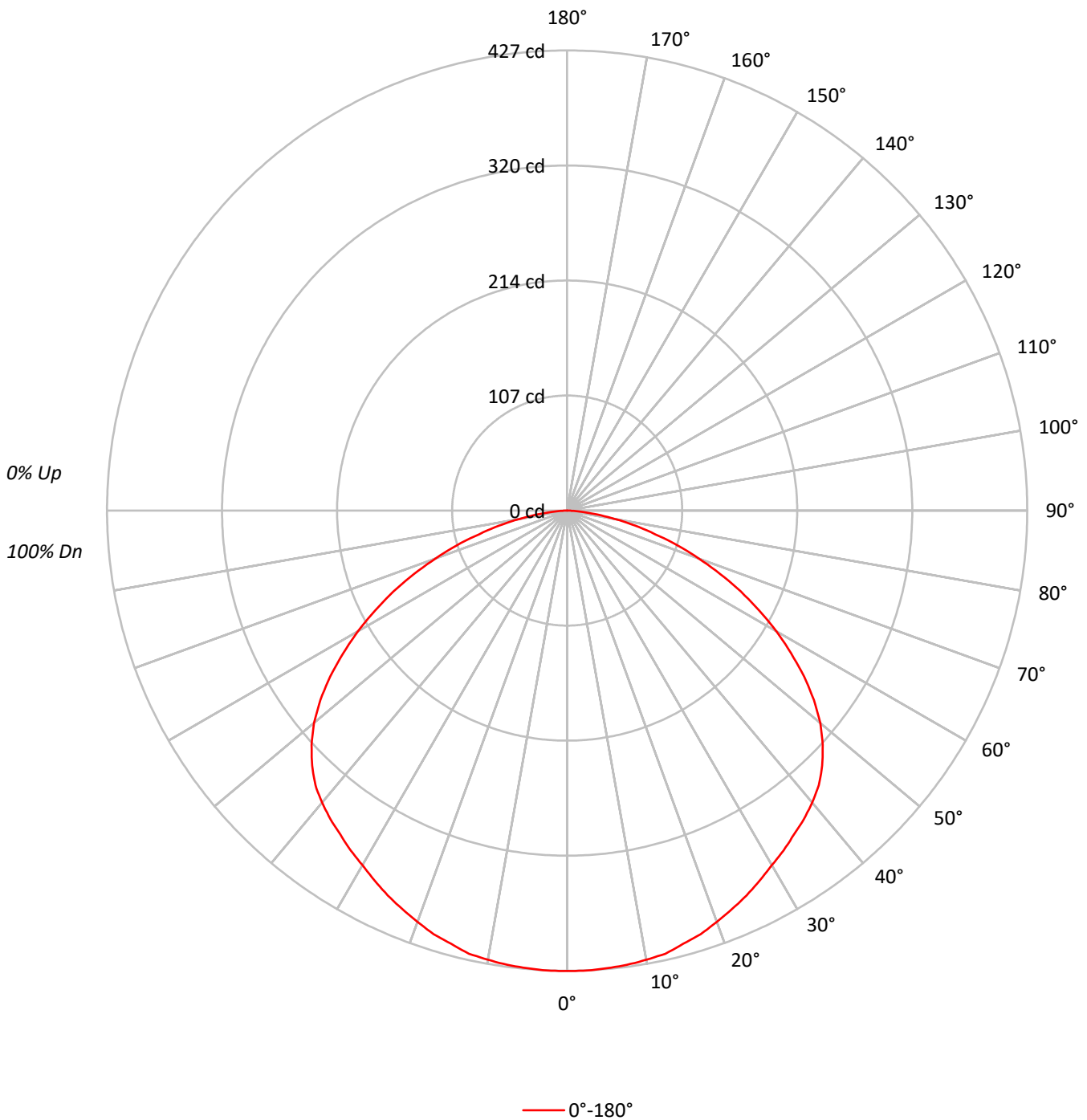
Lumens per Lamp: N/A
Luminaire Lumens: 1351.6 lumens
Efficiency: N/A
Efficacy: 45.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	59	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	46	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3625
5°	3631
10°	3647
15°	3656
20°	3667
25°	3689
30°	3724
35°	3801
40°	3919
45°	4017
50°	4048
55°	3971
60°	3805
65°	3572
70°	3218
75°	2767
80°	2209
85°	1373

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.0
10°-20°	117.7	8.7
20°-30°	181.8	13.5
30°-40°	230.3	17.0
40°-50°	257.5	19.0
50°-60°	239.0	17.7
60°-70°	175.5	13.0
70°-80°	90.6	6.7
80°-90°	18.7	1.4
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°	340.1	25.2
0°-40°	570.4	42.2
0°-60°	1066.8	78.9
0°-90°	1351.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1351.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	427	
5°	426	41
15°	416	118
25°	394	182
35°	367	230
45°	335	257
55°	268	239
65°	178	176
75°	84	91
85°	14	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	427.2
2.5°	427.2
5°	426.2
7.5°	425.2
10°	423.2
12.5°	421.2
15°	416.2
17.5°	412.1
20°	406.1
22.5°	400.1
25°	394.0
27.5°	387.0
30°	380.0
32.5°	373.9
35°	366.9
37.5°	360.9
40°	353.8
42.5°	345.8
45°	334.7
47.5°	321.7
50°	306.6
52.5°	288.5
55°	268.4
57.5°	246.3
60°	224.2
62.5°	201.0
65°	177.9
67.5°	153.8
70°	129.7
72.5°	107.6
75°	84.4
77.5°	64.3
80°	45.2
82.5°	28.1
85°	14.1
87.5°	4.0
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	17.19	18.86	17.55	19.17	19.48	17.19	18.86	17.55	19.17	19.48
	3H	18.83	20.34	19.20	20.66	21.02	18.83	20.34	19.20	20.66	21.02
	4H	19.37	20.79	19.77	21.14	21.52	19.37	20.79	19.77	21.14	21.52
	6H	19.72	21.03	20.13	21.40	21.79	19.72	21.03	20.13	21.40	21.79
	8H	19.80	21.05	20.22	21.44	21.84	19.80	21.05	20.22	21.44	21.84
	12H	19.83	21.04	20.26	21.42	21.85	19.83	21.04	20.26	21.42	21.85
4H	2H	17.80	19.22	18.19	19.56	19.94	17.80	19.22	18.19	19.56	19.94
	3H	19.64	20.83	20.05	21.22	21.62	19.64	20.83	20.05	21.22	21.62
	4H	20.29	21.36	20.72	21.78	22.21	20.29	21.36	20.72	21.78	22.21
	6H	20.74	21.67	21.19	22.11	22.57	20.74	21.67	21.19	22.11	22.57
	8H	20.85	21.72	21.31	22.17	22.63	20.85	21.72	21.31	22.17	22.63
	12H	20.91	21.69	21.39	22.17	22.64	20.91	21.69	21.39	22.17	22.64
8H	4H	20.54	21.42	21.00	21.86	22.32	20.54	21.42	21.00	21.86	22.32
	6H	21.07	21.80	21.56	22.29	22.76	21.07	21.80	21.56	22.29	22.76
	8H	21.23	21.88	21.74	22.38	22.87	21.23	21.88	21.74	22.38	22.87
	12H	21.32	21.90	21.83	22.39	22.95	21.32	21.90	21.83	22.39	22.95
12H	4H	20.56	21.35	21.04	21.82	22.29	20.56	21.35	21.04	21.82	22.29
	6H	21.10	21.75	21.60	22.26	22.74	21.10	21.75	21.60	22.26	22.74
	8H	21.29	21.87	21.80	22.36	22.92	21.29	21.87	21.80	22.36	22.92