

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: P866046

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-35L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

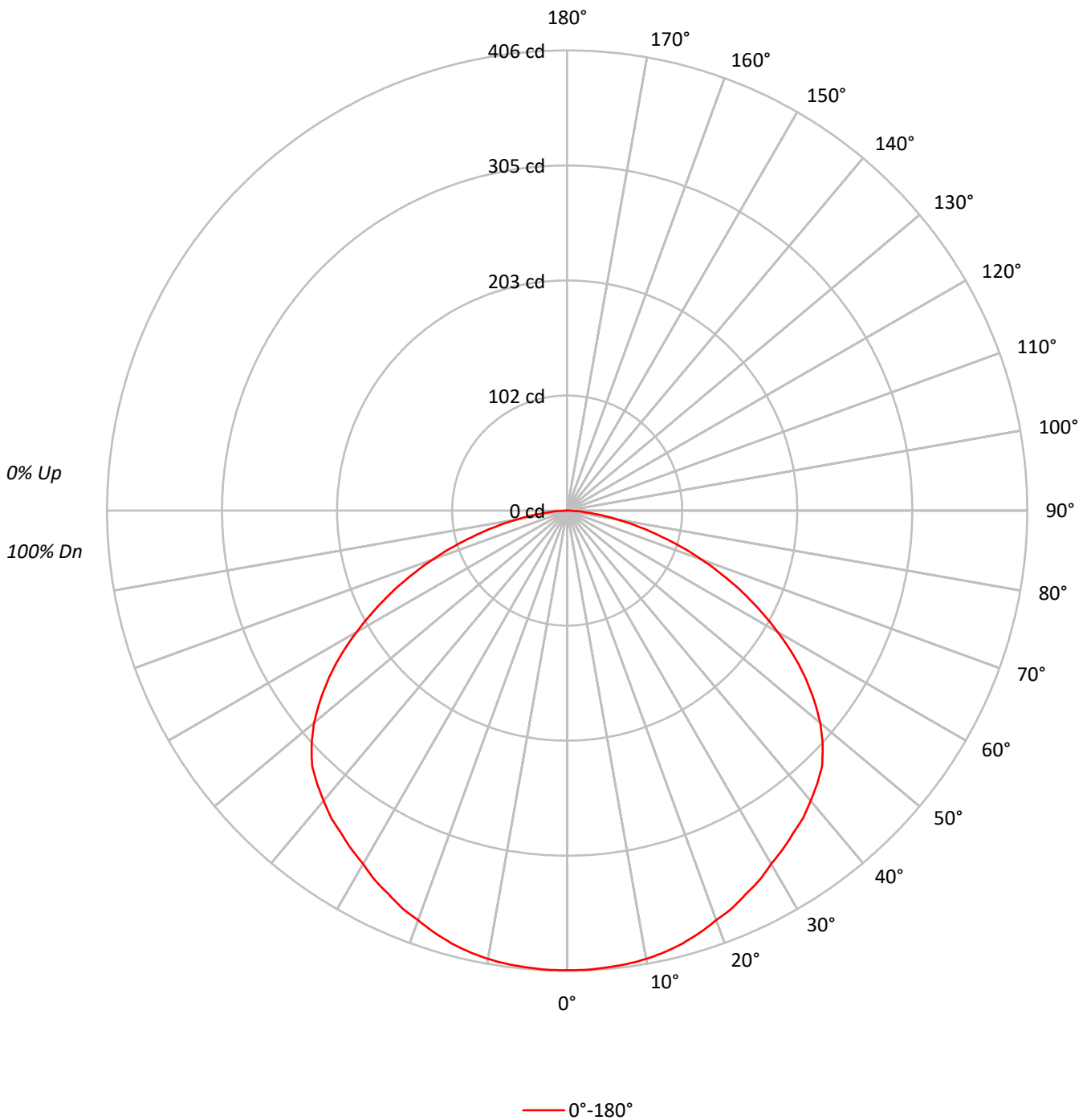
Lumens per Lamp: N/A
Luminaire Lumens: 1289.7 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.5 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	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	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3441
5°	3447
10°	3461
15°	3471
20°	3473
25°	3495
30°	3528
35°	3601
40°	3703
45°	3819
50°	3850
55°	3793
60°	3642
65°	3434
70°	3134
75°	2708
80°	2180
85°	1480

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	3.0
10°-20°	111.5	8.6
20°-30°	172.4	13.4
30°-40°	218.1	16.9
40°-50°	244.2	18.9
50°-60°	228.2	17.7
60°-70°	168.8	13.1
70°-80°	88.6	6.9
80°-90°	19.2	1.5
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°	322.5	25.0
0°-40°	540.7	41.9
0°-60°	1013.1	78.6
0°-90°	1289.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1289.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	406	
5°	405	39
15°	395	112
25°	373	172
35°	348	218
45°	318	244
55°	256	228
65°	171	169
75°	83	89
85°	15	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	405.5
2.5°	405.5
5°	404.6
7.5°	403.6
10°	401.7
12.5°	398.9
15°	395.1
17.5°	390.3
20°	384.6
22.5°	379.9
25°	373.3
27.5°	367.6
30°	360.0
32.5°	354.3
35°	347.6
37.5°	341.9
40°	334.3
42.5°	326.7
45°	318.2
47.5°	305.8
50°	291.6
52.5°	274.5
55°	256.4
57.5°	236.5
60°	214.6
62.5°	192.8
65°	171.0
67.5°	148.2
70°	126.3
72.5°	104.5
75°	82.6
77.5°	63.6
80°	44.6
82.5°	28.5
85°	15.2
87.5°	4.7
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	17.06	18.73	17.43	19.05	19.36	17.06	18.73	17.43	19.05	19.36
	3H	18.72	20.24	19.10	20.56	20.92	18.72	20.24	19.10	20.56	20.92
	4H	19.28	20.71	19.68	21.06	21.43	19.28	20.71	19.68	21.06	21.43
	6H	19.65	20.97	20.06	21.33	21.72	19.65	20.97	20.06	21.33	21.72
	8H	19.73	21.00	20.16	21.39	21.78	19.73	21.00	20.16	21.39	21.78
	12H	19.78	20.99	20.21	21.37	21.80	19.78	20.99	20.21	21.37	21.80
4H	2H	17.67	19.10	18.07	19.44	19.82	17.67	19.10	18.07	19.44	19.82
	3H	19.54	20.73	19.95	21.13	21.53	19.54	20.73	19.95	21.13	21.53
	4H	20.21	21.29	20.64	21.70	22.14	20.21	21.29	20.64	21.70	22.14
	6H	20.68	21.62	21.13	22.06	22.51	20.68	21.62	21.13	22.06	22.51
	8H	20.80	21.68	21.26	22.12	22.59	20.80	21.68	21.26	22.12	22.59
	12H	20.87	21.66	21.35	22.14	22.61	20.87	21.66	21.35	22.14	22.61
8H	4H	20.47	21.35	20.93	21.79	22.26	20.47	21.35	20.93	21.79	22.26
	6H	21.03	21.76	21.52	22.25	22.72	21.03	21.76	21.52	22.25	22.72
	8H	21.20	21.85	21.70	22.36	22.84	21.20	21.85	21.70	22.36	22.84
	12H	21.31	21.89	21.82	22.38	22.94	21.31	21.89	21.82	22.38	22.94
12H	4H	20.49	21.28	20.97	21.76	22.23	20.49	21.28	20.97	21.76	22.23
	6H	21.05	21.71	21.56	22.22	22.70	21.05	21.71	21.56	22.22	22.70
	8H	21.27	21.85	21.77	22.34	22.90	21.27	21.85	21.77	22.34	22.90