

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: P866044

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

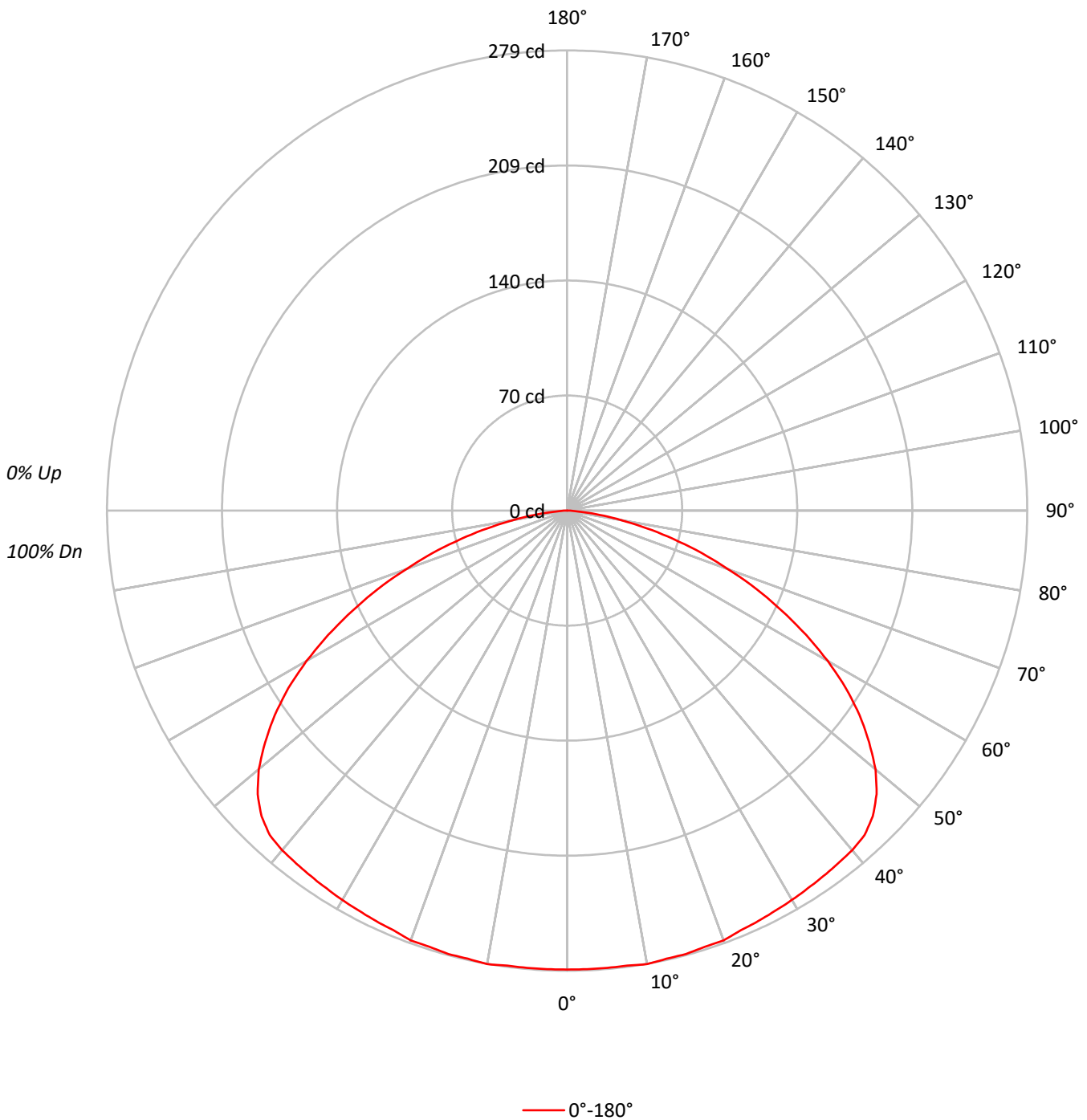
Lumens per Lamp: N/A
Luminaire Lumens: 1021.9 lumens
Efficiency: N/A
Efficacy: 34.1 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2362
5°	2371
10°	2406
15°	2445
20°	2504
25°	2570
30°	2671
35°	2804
40°	2978
45°	3145
50°	3223
55°	3203
60°	3096
65°	2879
70°	2568
75°	2180
80°	1622
85°	828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3223 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	2.6
10°-20°	78.8	7.7
20°-30°	127.0	12.4
30°-40°	170.0	16.6
40°-50°	201.1	19.7
50°-60°	192.6	18.8
60°-70°	142.0	13.9
70°-80°	71.1	7.0
80°-90°	12.7	1.2
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°	232.4	22.7
0°-40°	402.4	39.4
0°-60°	796.1	77.9
0°-90°	1021.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	278	
5°	278	27
15°	278	79
25°	274	127
35°	271	170
45°	262	201
55°	216	193
65°	143	142
75°	66	71
85°	8	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	278.3
2.5°	278.3
5°	278.3
7.5°	278.3
10°	279.2
12.5°	278.3
15°	278.3
17.5°	277.3
20°	277.3
22.5°	275.4
25°	274.5
27.5°	273.5
30°	272.6
32.5°	271.6
35°	270.7
37.5°	269.7
40°	268.8
42.5°	266.9
45°	262.1
47.5°	254.5
50°	244.1
52.5°	230.8
55°	216.5
57.5°	200.4
60°	182.4
62.5°	163.4
65°	143.4
67.5°	124.4
70°	103.5
72.5°	85.5
75°	66.5
77.5°	49.4
80°	33.2
82.5°	19.9
85°	8.5
87.5°	1.9
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	16.68	18.38	17.05	18.70	19.01	16.68	18.38	17.05	18.70	19.01
	3H	18.30	19.84	18.67	20.16	20.52	18.30	19.84	18.67	20.16	20.52
	4H	18.82	20.27	19.22	20.61	20.99	18.82	20.27	19.22	20.61	20.99
	6H	19.12	20.46	19.53	20.83	21.22	19.12	20.46	19.53	20.83	21.22
	8H	19.18	20.46	19.60	20.85	21.25	19.18	20.46	19.60	20.85	21.25
	12H	19.20	20.43	19.63	20.81	21.24	19.20	20.43	19.63	20.81	21.24
4H	2H	17.29	18.74	17.68	19.08	19.46	17.29	18.74	17.68	19.08	19.46
	3H	19.10	20.31	19.50	20.71	21.10	19.10	20.31	19.50	20.71	21.10
	4H	19.72	20.82	20.15	21.23	21.66	19.72	20.82	20.15	21.23	21.66
	6H	20.12	21.07	20.57	21.51	21.97	20.12	21.07	20.57	21.51	21.97
	8H	20.20	21.10	20.66	21.54	22.00	20.20	21.10	20.66	21.54	22.00
	12H	20.24	21.04	20.72	21.52	21.99	20.24	21.04	20.72	21.52	21.99
8H	4H	19.96	20.86	20.42	21.30	21.76	19.96	20.86	20.42	21.30	21.76
	6H	20.43	21.17	20.92	21.66	22.13	20.43	21.17	20.92	21.66	22.13
	8H	20.55	21.21	21.05	21.72	22.20	20.55	21.21	21.05	21.72	22.20
	12H	20.61	21.20	21.12	21.69	22.25	20.61	21.20	21.12	21.69	22.25
12H	4H	19.97	20.78	20.45	21.25	21.72	19.97	20.78	20.45	21.25	21.72
	6H	20.44	21.11	20.95	21.62	22.10	20.44	21.11	20.95	21.62	22.10
	8H	20.60	21.19	21.11	21.68	22.24	20.60	21.19	21.11	21.68	22.24