

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: P866300

Luminaire Tested: PRLX-2002-M-935-35L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-935-35L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

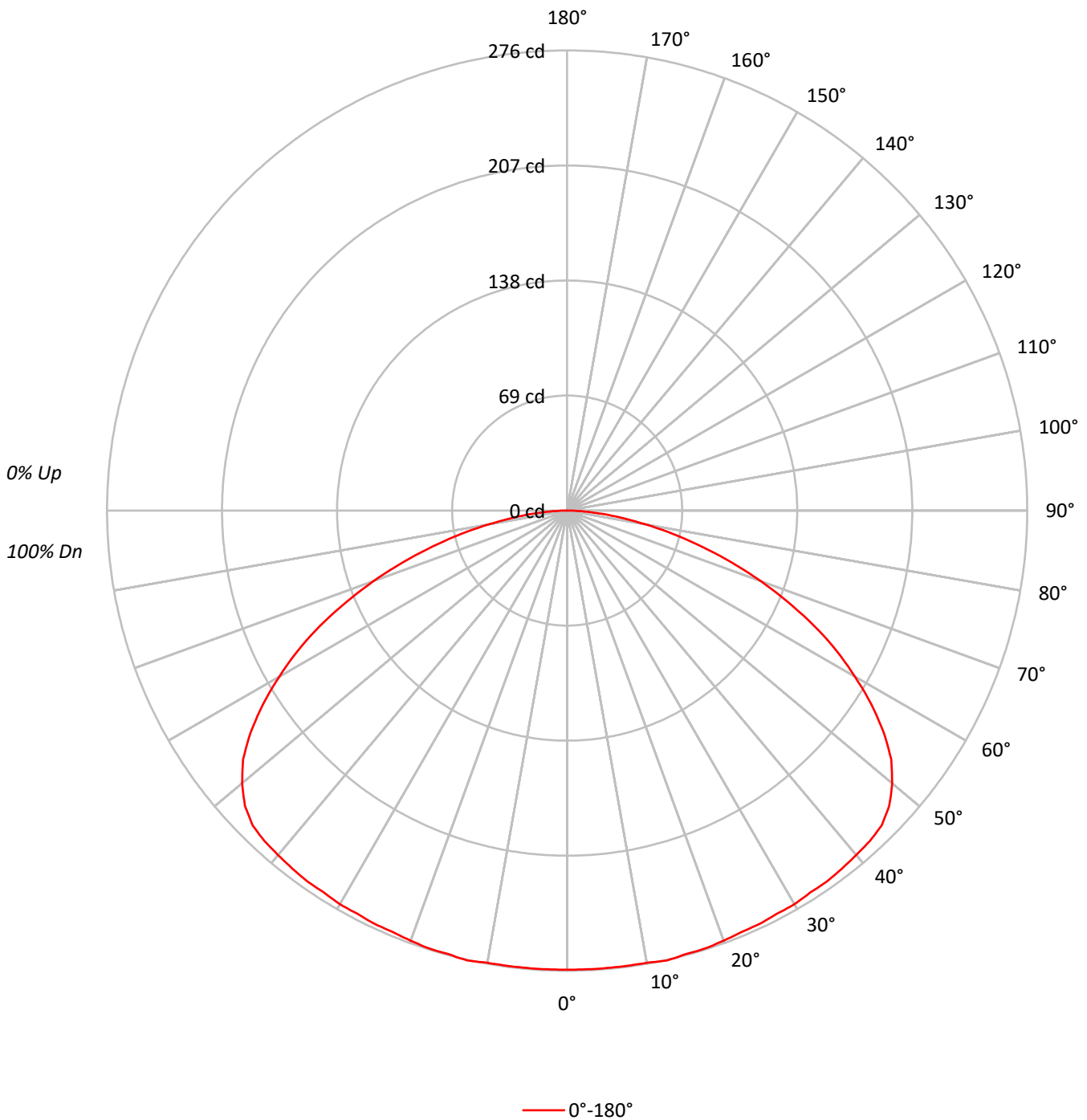
Lumens per Lamp: N/A
Luminaire Lumens: 1085.0 lumens
Efficiency: N/A
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2191
5°	2199
10°	2225
15°	2268
20°	2324
25°	2401
30°	2504
35°	2638
40°	2801
45°	3003
50°	3150
55°	3214
60°	3173
65°	3076
70°	2873
75°	2570
80°	2176
85°	1734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	2.4
10°-20°	78.1	7.2
20°-30°	126.5	11.7
30°-40°	170.4	15.7
40°-50°	205.1	18.9
50°-60°	205.9	19.0
60°-70°	161.0	14.8
70°-80°	89.1	8.2
80°-90°	22.7	2.1
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°	230.8	21.3
0°-40°	401.2	37.0
0°-60°	812.2	74.9
0°-90°	1085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	275	
5°	275	26
15°	275	78
25°	274	126
35°	272	170
45°	267	205
55°	232	206
65°	163	161
75°	84	89
85°	19	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	275.4
2.5°	275.4
5°	275.4
7.5°	275.4
10°	275.4
12.5°	276.4
15°	275.4
17.5°	275.4
20°	274.5
22.5°	273.5
25°	273.5
27.5°	272.6
30°	272.6
32.5°	271.6
35°	271.6
37.5°	270.7
40°	269.7
42.5°	268.8
45°	266.9
47.5°	262.1
50°	254.5
52.5°	245.0
55°	231.7
57.5°	216.5
60°	199.4
62.5°	182.4
65°	163.4
67.5°	143.4
70°	123.5
72.5°	103.5
75°	83.6
77.5°	65.5
80°	47.5
82.5°	32.3
85°	19.0
87.5°	8.5
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	16.75	18.48	17.11	18.80	19.11	16.75	18.48	17.11	18.80	19.11
	3H	18.58	20.16	18.96	20.48	20.84	18.58	20.16	18.96	20.48	20.84
	4H	19.22	20.71	19.62	21.06	21.43	19.22	20.71	19.62	21.06	21.43
	6H	19.67	21.05	20.08	21.41	21.80	19.67	21.05	20.08	21.41	21.80
	8H	19.80	21.12	20.22	21.51	21.91	19.80	21.12	20.22	21.51	21.91
	12H	19.88	21.15	20.31	21.53	21.96	19.88	21.15	20.31	21.53	21.96
4H	2H	17.42	18.91	17.82	19.26	19.63	17.42	18.91	17.82	19.26	19.63
	3H	19.46	20.71	19.87	21.11	21.51	19.46	20.71	19.87	21.11	21.51
	4H	20.22	21.36	20.65	21.77	22.20	20.22	21.36	20.65	21.77	22.20
	6H	20.78	21.78	21.23	22.22	22.67	20.78	21.78	21.23	22.22	22.67
	8H	20.95	21.89	21.41	22.33	22.79	20.95	21.89	21.41	22.33	22.79
	12H	21.07	21.92	21.55	22.39	22.86	21.07	21.92	21.55	22.39	22.86
8H	4H	20.53	21.46	20.99	21.90	22.37	20.53	21.46	20.99	21.90	22.37
	6H	21.20	21.97	21.69	22.46	22.93	21.20	21.97	21.69	22.46	22.93
	8H	21.43	22.13	21.93	22.63	23.11	21.43	22.13	21.93	22.63	23.11
	12H	21.61	22.23	22.11	22.72	23.27	21.61	22.23	22.11	22.72	23.27
12H	4H	20.56	21.41	21.04	21.88	22.35	20.56	21.41	21.04	21.88	22.35
	6H	21.24	21.94	21.75	22.45	22.93	21.24	21.94	21.75	22.45	22.93
	8H	21.53	22.15	22.03	22.64	23.19	21.53	22.15	22.03	22.64	23.19