

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: P866076

Luminaire Tested: PRLX-2001-M-935-75L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866076
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-935-75L-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 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

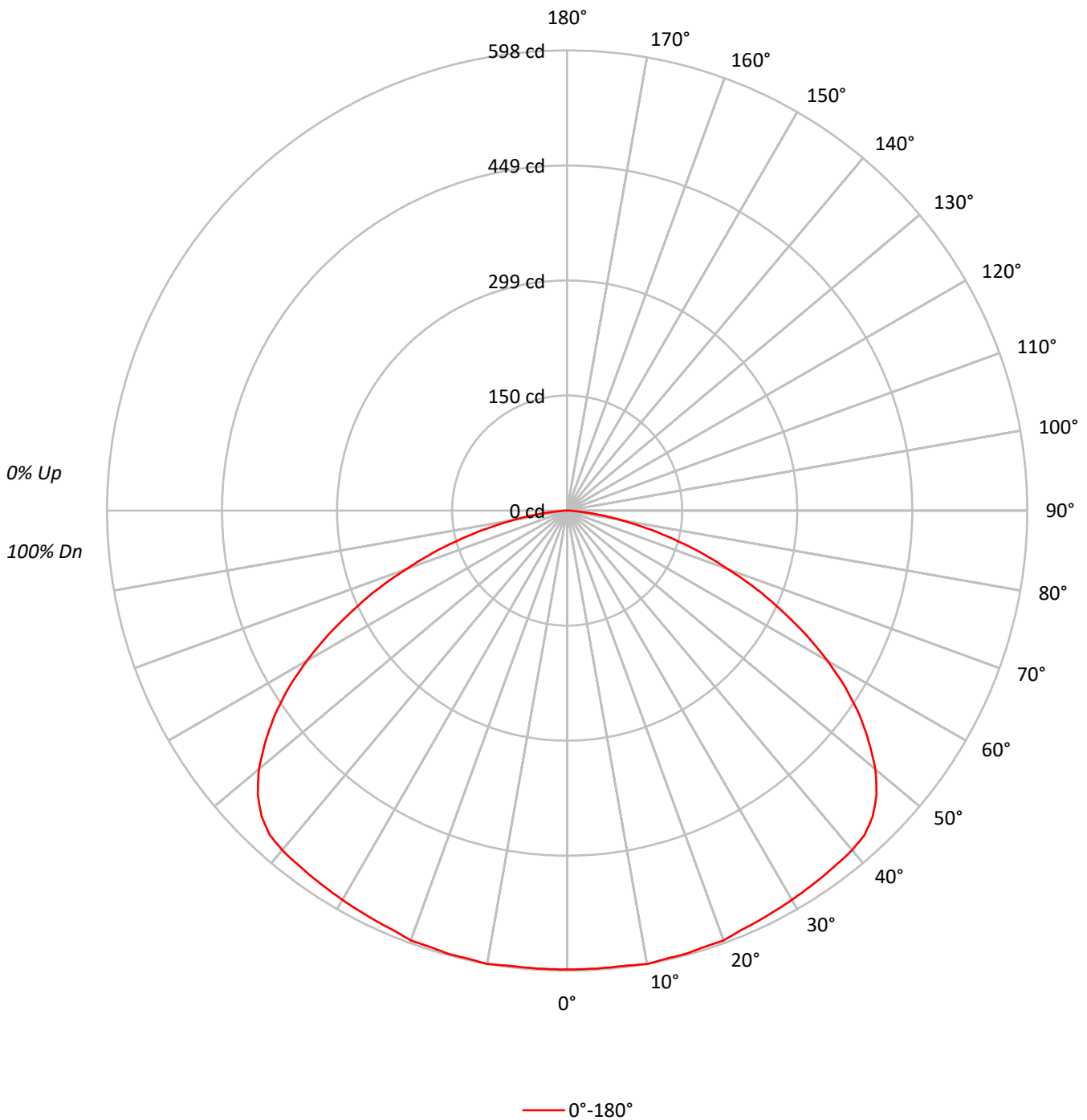
Lumens per Lamp: N/A
Luminaire Lumens: 2189.7 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	5060
5°	5080
10°	5156
15°	5239
20°	5367
25°	5507
30°	5723
35°	6009
40°	6381
45°	6741
50°	6905
55°	6865
60°	6633
65°	6170
70°	5503
75°	4672
80°	3479
85°	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6905 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	2.6
10°-20°	168.8	7.7
20°-30°	272.2	12.4
30°-40°	364.3	16.6
40°-50°	430.9	19.7
50°-60°	412.6	18.8
60°-70°	304.2	13.9
70°-80°	152.3	7.0
80°-90°	27.4	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°	498.0	22.7
0°-40°	862.3	39.4
0°-60°	1705.9	77.9
0°-90°	2189.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	596	
5°	596	57
15°	596	169
25°	588	272
35°	580	364
45°	562	431
55°	464	413
65°	307	304
75°	142	152
85°	18	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	596.3
2.5°	596.3
5°	596.3
7.5°	596.3
10°	598.3
12.5°	596.3
15°	596.3
17.5°	594.3
20°	594.3
22.5°	590.2
25°	588.2
27.5°	586.1
30°	584.1
32.5°	582.1
35°	580.0
37.5°	578.0
40°	576.0
42.5°	571.9
45°	561.7
47.5°	545.4
50°	523.0
52.5°	494.5
55°	464.0
57.5°	429.4
60°	390.8
62.5°	350.1
65°	307.3
67.5°	266.6
70°	221.8
72.5°	183.2
75°	142.5
77.5°	105.8
80°	71.2
82.5°	42.7
85°	18.3
87.5°	4.1
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	19.33	21.03	19.70	21.35	21.66	19.33	21.03	19.70	21.35	21.66
	3H	20.95	22.48	21.32	22.81	23.17	20.95	22.48	21.32	22.81	23.17
	4H	21.47	22.92	21.86	23.26	23.64	21.47	22.92	21.86	23.26	23.64
	6H	21.77	23.11	22.18	23.47	23.86	21.77	23.11	22.18	23.47	23.86
	8H	21.83	23.11	22.25	23.50	23.90	21.83	23.11	22.25	23.50	23.90
	12H	21.85	23.08	22.27	23.46	23.89	21.85	23.08	22.27	23.46	23.89
4H	2H	19.93	21.38	20.33	21.73	22.10	19.93	21.38	20.33	21.73	22.10
	3H	21.74	22.96	22.15	23.35	23.75	21.74	22.96	22.15	23.35	23.75
	4H	22.37	23.47	22.80	23.88	24.31	22.37	23.47	22.80	23.88	24.31
	6H	22.76	23.72	23.22	24.16	24.61	22.76	23.72	23.22	24.16	24.61
	8H	22.85	23.75	23.31	24.19	24.65	22.85	23.75	23.31	24.19	24.65
	12H	22.89	23.69	23.37	24.17	24.63	22.89	23.69	23.37	24.17	24.63
8H	4H	22.61	23.50	23.07	23.94	24.41	22.61	23.50	23.07	23.94	24.41
	6H	23.07	23.82	23.57	24.30	24.78	23.07	23.82	23.57	24.30	24.78
	8H	23.20	23.86	23.70	24.37	24.85	23.20	23.86	23.70	24.37	24.85
	12H	23.26	23.85	23.76	24.34	24.90	23.26	23.85	23.76	24.34	24.90
12H	4H	22.62	23.43	23.10	23.90	24.37	22.62	23.43	23.10	23.90	24.37
	6H	23.09	23.76	23.60	24.26	24.75	23.09	23.76	23.60	24.26	24.75
	8H	23.25	23.84	23.75	24.33	24.89	23.25	23.84	23.75	24.33	24.89