

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: P866082

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-935-75L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

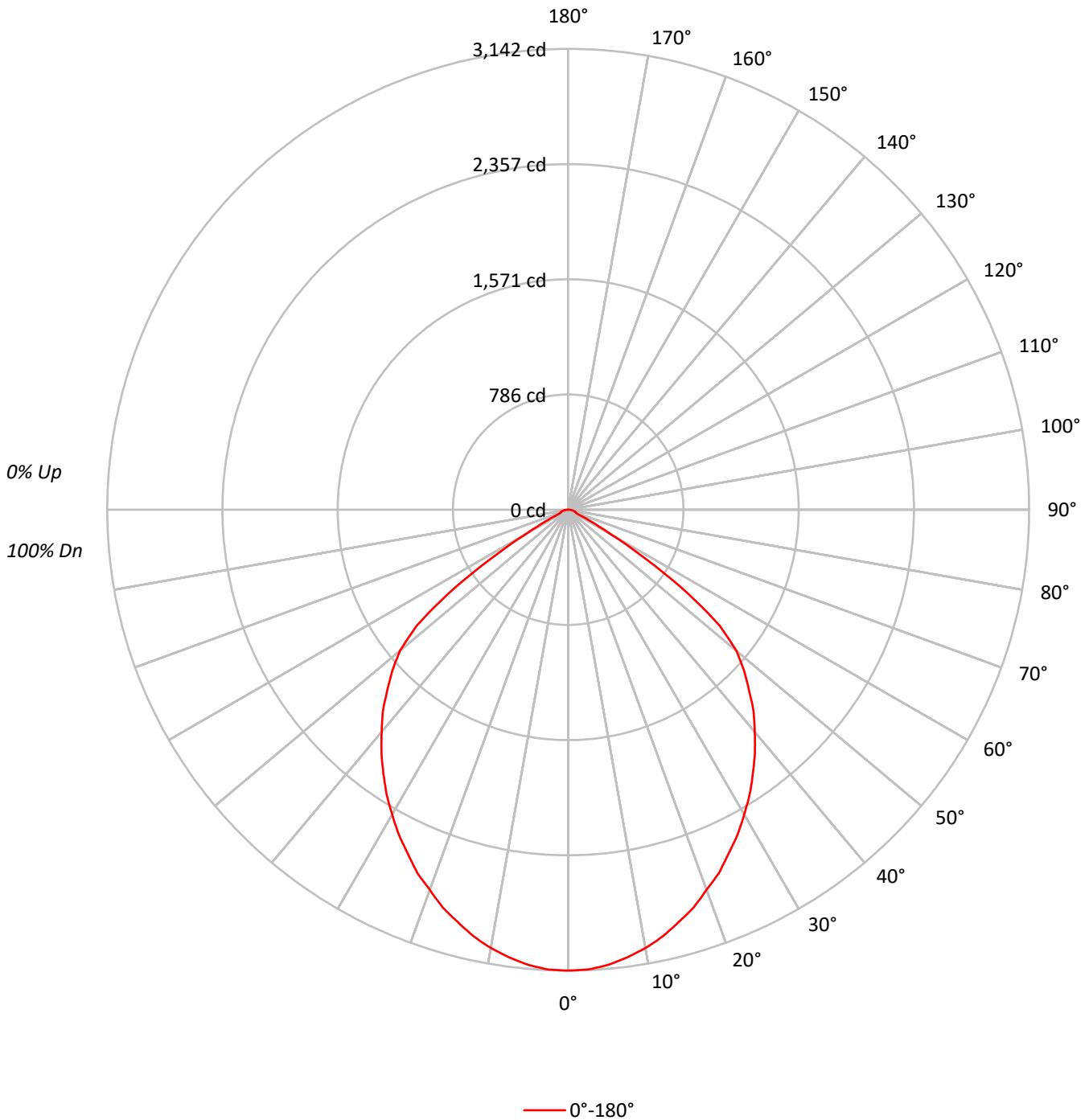
Lumens per Lamp: N/A
Luminaire Lumens: 6070.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866082

CATALOG NUMBER: PRLX-2001-M-935-75L-L-U-S-X-X-GREY-X

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26666
5°	26542
10°	26147
15°	25568
20°	24904
25°	24220
30°	23512
35°	22748
40°	21914
45°	20931
50°	19747
55°	14785
60°	5837
65°	1594
70°	1362
75°	1469
80°	1593
85°	1587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20931 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	4.9
10°-20°	820.1	13.5
20°-30°	1192.4	19.6
30°-40°	1373.2	22.6
40°-50°	1345.8	22.2
50°-60°	855.0	14.1
60°-70°	124.6	2.1
70°-80°	47.0	0.8
80°-90°	17.7	0.3
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°	2307.3	38.0
0°-40°	3680.5	60.6
0°-60°	5881.3	96.9
0°-90°	6070.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6070.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3142	
5°	3116	295
15°	2910	820
25°	2587	1192
35°	2196	1373
45°	1744	1346
55°	999	855
65°	79	125
75°	45	47
85°	16	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3142.3
2.5°	3138.2
5°	3115.8
7.5°	3079.2
10°	3034.4
12.5°	2979.5
15°	2910.3
17.5°	2843.1
20°	2757.7
22.5°	2682.4
25°	2586.7
27.5°	2499.2
30°	2399.5
32.5°	2301.8
35°	2195.9
37.5°	2090.1
40°	1978.2
42.5°	1870.3
45°	1744.1
47.5°	1626.1
50°	1495.8
52.5°	1302.5
55°	999.3
57.5°	637.0
60°	343.9
62.5°	173.0
65°	79.4
67.5°	57.0
70°	54.9
72.5°	50.9
75°	44.8
77.5°	38.7
80°	32.6
82.5°	24.4
85°	16.3
87.5°	8.1
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	18.71	20.12	19.08	20.43	20.74	18.71	20.12	19.08	20.43	20.74
	3H	18.65	19.88	19.02	20.21	20.57	18.65	19.88	19.02	20.21	20.57
	4H	18.62	19.77	19.02	20.12	20.50	18.62	19.77	19.02	20.12	20.50
	6H	18.60	19.65	19.01	20.02	20.41	18.60	19.65	19.01	20.02	20.41
	8H	18.58	19.58	19.01	19.97	20.37	18.58	19.58	19.01	19.97	20.37
	12H	18.56	19.52	19.00	19.90	20.33	18.56	19.52	19.00	19.90	20.33
4H	2H	18.56	19.70	18.96	20.05	20.43	18.56	19.70	18.96	20.05	20.43
	3H	18.52	19.44	18.93	19.84	20.25	18.52	19.44	18.93	19.84	20.25
	4H	18.51	19.33	18.94	19.75	20.19	18.51	19.33	18.94	19.75	20.19
	6H	18.52	19.23	18.98	19.67	20.14	18.52	19.23	18.98	19.67	20.14
	8H	18.51	19.17	18.97	19.61	20.09	18.51	19.17	18.97	19.61	20.09
	12H	18.50	19.09	18.98	19.57	20.04	18.50	19.09	18.98	19.57	20.04
8H	4H	18.41	19.08	18.88	19.52	19.99	18.41	19.08	18.88	19.52	19.99
	6H	18.43	18.98	18.93	19.48	19.96	18.43	18.98	18.93	19.48	19.96
	8H	18.43	18.93	18.95	19.45	19.94	18.43	18.93	18.95	19.45	19.94
	12H	18.45	18.90	18.96	19.39	19.96	18.45	18.90	18.96	19.39	19.96
12H	4H	18.38	18.96	18.86	19.45	19.92	18.38	18.96	18.86	19.45	19.92
	6H	18.39	18.88	18.91	19.40	19.89	18.39	18.88	18.91	19.40	19.89
	8H	18.42	18.86	18.93	19.36	19.93	18.42	18.86	18.93	19.36	19.93