

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: P866336

Luminaire Tested: PRLX-2002-M-935-75L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-75L-L-U-S-X-X-BLAK-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

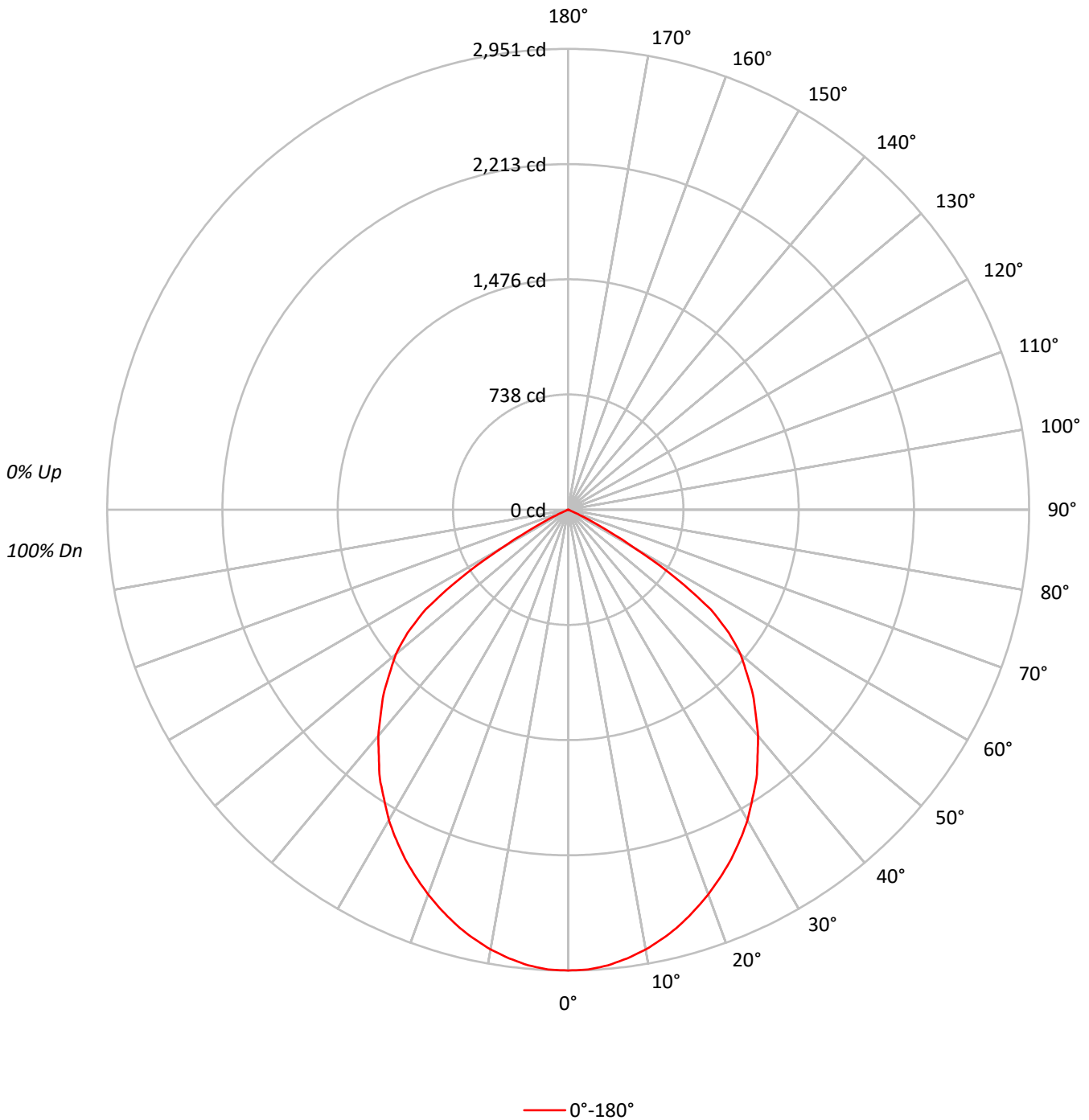
Lumens per Lamp: N/A
Luminaire Lumens: 5871.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		95	93	92	90
2	104	97	92	88	101	96	91	87	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	69
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23477
5°	23388
10°	23100
15°	22696
20°	22193
25°	21671
30°	21089
35°	20418
40°	19636
45°	18822
50°	17834
55°	15441
60°	7902
65°	1532
70°	142
75°	188
80°	188
85°	183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	4.7
10°-20°	775.9	13.2
20°-30°	1136.1	19.3
30°-40°	1311.1	22.3
40°-50°	1285.5	21.9
50°-60°	934.1	15.9
60°-70°	143.2	2.4
70°-80°	5.6	0.1
80°-90°	2.8	0.0
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°	2189.3	37.3
0°-40°	3500.4	59.6
0°-60°	5720.0	97.4
0°-90°	5871.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5871.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2951	
5°	2929	277
15°	2756	776
25°	2469	1136
35°	2102	1311
45°	1673	1285
55°	1113	934
65°	81	143
75°	6	6
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2951.0
2.5°	2946.9
5°	2928.6
7.5°	2898.1
10°	2859.4
12.5°	2810.6
15°	2755.6
17.5°	2690.5
20°	2621.3
22.5°	2546.0
25°	2468.7
27.5°	2383.2
30°	2295.7
32.5°	2193.9
35°	2102.3
37.5°	1990.4
40°	1890.7
42.5°	1776.7
45°	1672.9
47.5°	1548.8
50°	1440.9
52.5°	1296.4
55°	1113.2
57.5°	822.2
60°	496.6
62.5°	236.1
65°	81.4
67.5°	20.4
70°	6.1
72.5°	6.1
75°	6.1
77.5°	4.1
80°	4.1
82.5°	4.1
85°	2.0
87.5°	2.0
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	20.40	21.81	20.76	22.13	22.44	20.40	21.81	20.76	22.13	22.44
	3H	20.28	21.52	20.66	21.85	22.22	20.28	21.52	20.66	21.85	22.22
	4H	20.22	21.37	20.62	21.72	22.10	20.22	21.37	20.62	21.72	22.10
	6H	20.14	21.20	20.56	21.57	21.96	20.14	21.20	20.56	21.57	21.96
	8H	20.10	21.10	20.53	21.50	21.90	20.10	21.10	20.53	21.50	21.90
	12H	20.07	21.02	20.50	21.40	21.83	20.07	21.02	20.50	21.40	21.83
4H	2H	20.24	21.39	20.64	21.74	22.12	20.24	21.39	20.64	21.74	22.12
	3H	20.12	21.05	20.54	21.45	21.85	20.12	21.05	20.54	21.45	21.85
	4H	20.04	20.86	20.48	21.28	21.72	20.04	20.86	20.48	21.28	21.72
	6H	19.97	20.67	20.43	21.12	21.58	19.97	20.67	20.43	21.12	21.58
	8H	19.91	20.57	20.38	21.02	21.49	19.91	20.57	20.38	21.02	21.49
	12H	19.87	20.45	20.35	20.93	21.41	19.87	20.45	20.35	20.93	21.41
8H	4H	19.91	20.57	20.38	21.02	21.49	19.91	20.57	20.38	21.02	21.49
	6H	19.81	20.35	20.31	20.85	21.33	19.81	20.35	20.31	20.85	21.33
	8H	19.74	20.24	20.26	20.75	21.24	19.74	20.24	20.26	20.75	21.24
	12H	19.69	20.14	20.21	20.63	21.20	19.69	20.14	20.21	20.63	21.20
12H	4H	19.86	20.45	20.35	20.93	21.41	19.86	20.45	20.35	20.93	21.41
	6H	19.74	20.24	20.26	20.75	21.24	19.74	20.24	20.26	20.75	21.24
	8H	19.69	20.14	20.20	20.63	21.20	19.69	20.14	20.20	20.63	21.20