

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: P866320

Luminaire Tested: PRLX-2002-M-935-55L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866320
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-935-55L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

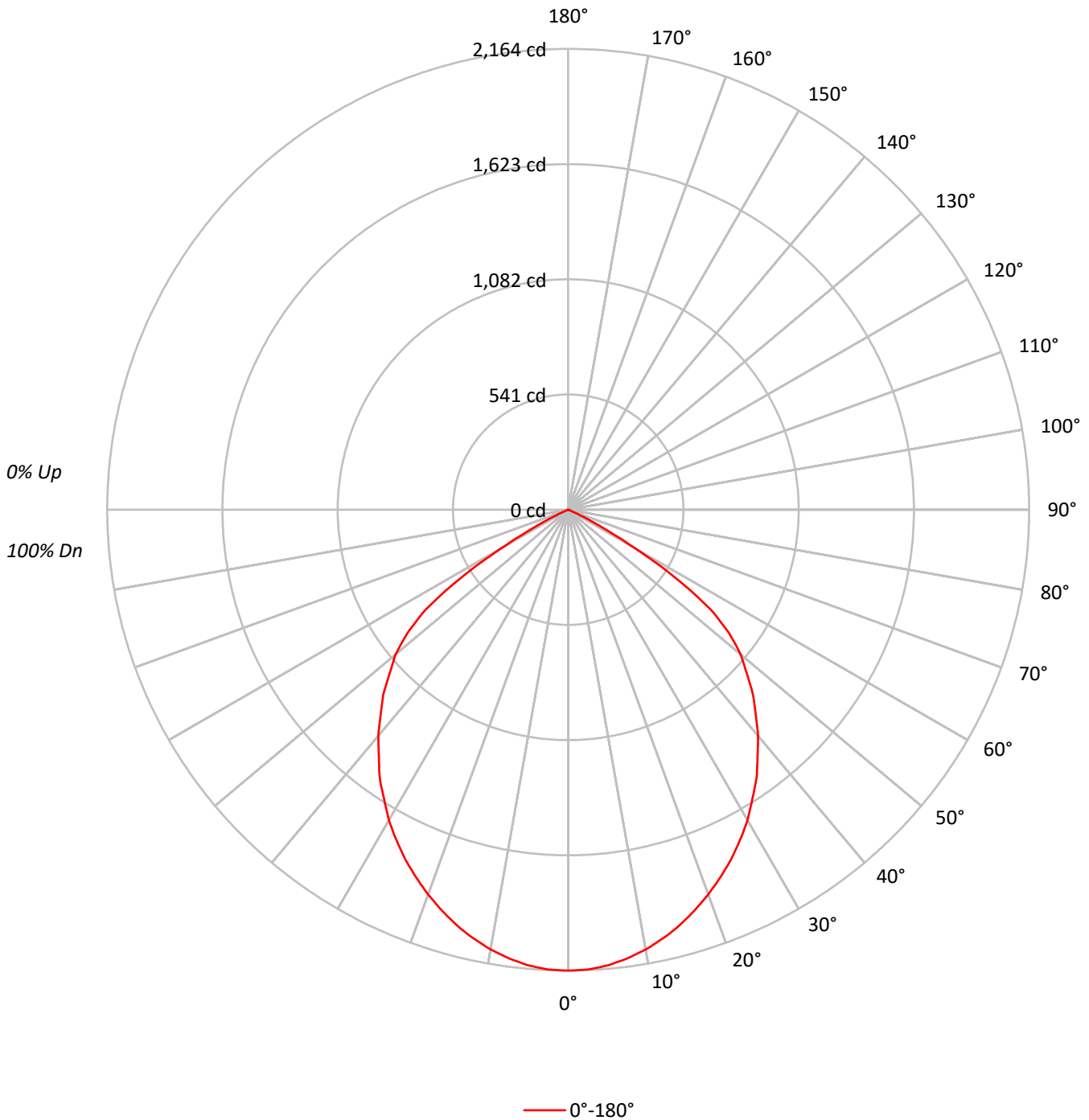
Lumens per Lamp: N/A
Luminaire Lumens: 4305.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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°	17217
5°	17151
10°	16940
15°	16644
20°	16275
25°	15892
30°	15466
35°	14973
40°	14400
45°	13803
50°	13079
55°	11324
60°	5795
65°	1124
70°	105
75°	138
80°	137
85°	137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	4.7
10°-20°	569.0	13.2
20°-30°	833.2	19.3
30°-40°	961.5	22.3
40°-50°	942.7	21.9
50°-60°	685.0	15.9
60°-70°	105.0	2.4
70°-80°	4.2	0.1
80°-90°	2.0	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°	1605.5	37.3
0°-40°	2567.0	59.6
0°-60°	4194.7	97.4
0°-90°	4305.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2164	
5°	2148	203
15°	2021	569
25°	1810	833
35°	1542	961
45°	1227	943
55°	816	685
65°	60	105
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2164.1
2.5°	2161.1
5°	2147.6
7.5°	2125.3
10°	2096.9
12.5°	2061.1
15°	2020.8
17.5°	1973.0
20°	1922.3
22.5°	1867.1
25°	1810.4
27.5°	1747.7
30°	1683.5
32.5°	1608.9
35°	1541.7
37.5°	1459.6
40°	1386.5
42.5°	1302.9
45°	1226.8
47.5°	1135.8
50°	1056.7
52.5°	950.7
55°	816.4
57.5°	603.0
60°	364.2
62.5°	173.1
65°	59.7
67.5°	14.9
70°	4.5
72.5°	4.5
75°	4.5
77.5°	3.0
80°	3.0
82.5°	3.0
85°	1.5
87.5°	1.5
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	19.32	20.74	19.69	21.05	21.36	19.32	20.74	19.69	21.05	21.36
	3H	19.21	20.45	19.58	20.78	21.14	19.21	20.45	19.58	20.78	21.14
	4H	19.14	20.29	19.54	20.64	21.02	19.14	20.29	19.54	20.64	21.02
	6H	19.07	20.12	19.48	20.49	20.89	19.07	20.12	19.48	20.49	20.89
	8H	19.03	20.03	19.46	20.42	20.82	19.03	20.03	19.46	20.42	20.82
	12H	18.99	19.94	19.42	20.33	20.76	18.99	19.94	19.42	20.33	20.76
4H	2H	19.16	20.31	19.56	20.66	21.04	19.16	20.31	19.56	20.66	21.04
	3H	19.05	19.97	19.46	20.37	20.78	19.05	19.97	19.46	20.37	20.78
	4H	18.96	19.79	19.40	20.20	20.65	18.96	19.79	19.40	20.20	20.65
	6H	18.89	19.60	19.35	20.04	20.51	18.89	19.60	19.35	20.04	20.51
	8H	18.83	19.50	19.30	19.94	20.41	18.83	19.50	19.30	19.94	20.41
	12H	18.79	19.38	19.27	19.86	20.33	18.79	19.38	19.27	19.86	20.33
8H	4H	18.83	19.49	19.30	19.94	20.41	18.83	19.49	19.30	19.94	20.41
	6H	18.73	19.28	19.23	19.77	20.25	18.73	19.28	19.23	19.77	20.25
	8H	18.66	19.16	19.18	19.67	20.16	18.66	19.16	19.18	19.67	20.16
	12H	18.61	19.06	19.13	19.55	20.12	18.61	19.06	19.13	19.55	20.12
12H	4H	18.79	19.37	19.27	19.86	20.33	18.79	19.37	19.27	19.86	20.33
	6H	18.66	19.16	19.18	19.67	20.16	18.66	19.16	19.18	19.67	20.16
	8H	18.61	19.06	19.13	19.55	20.12	18.61	19.06	19.13	19.55	20.12