

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: P866316

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866316
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-935-55L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

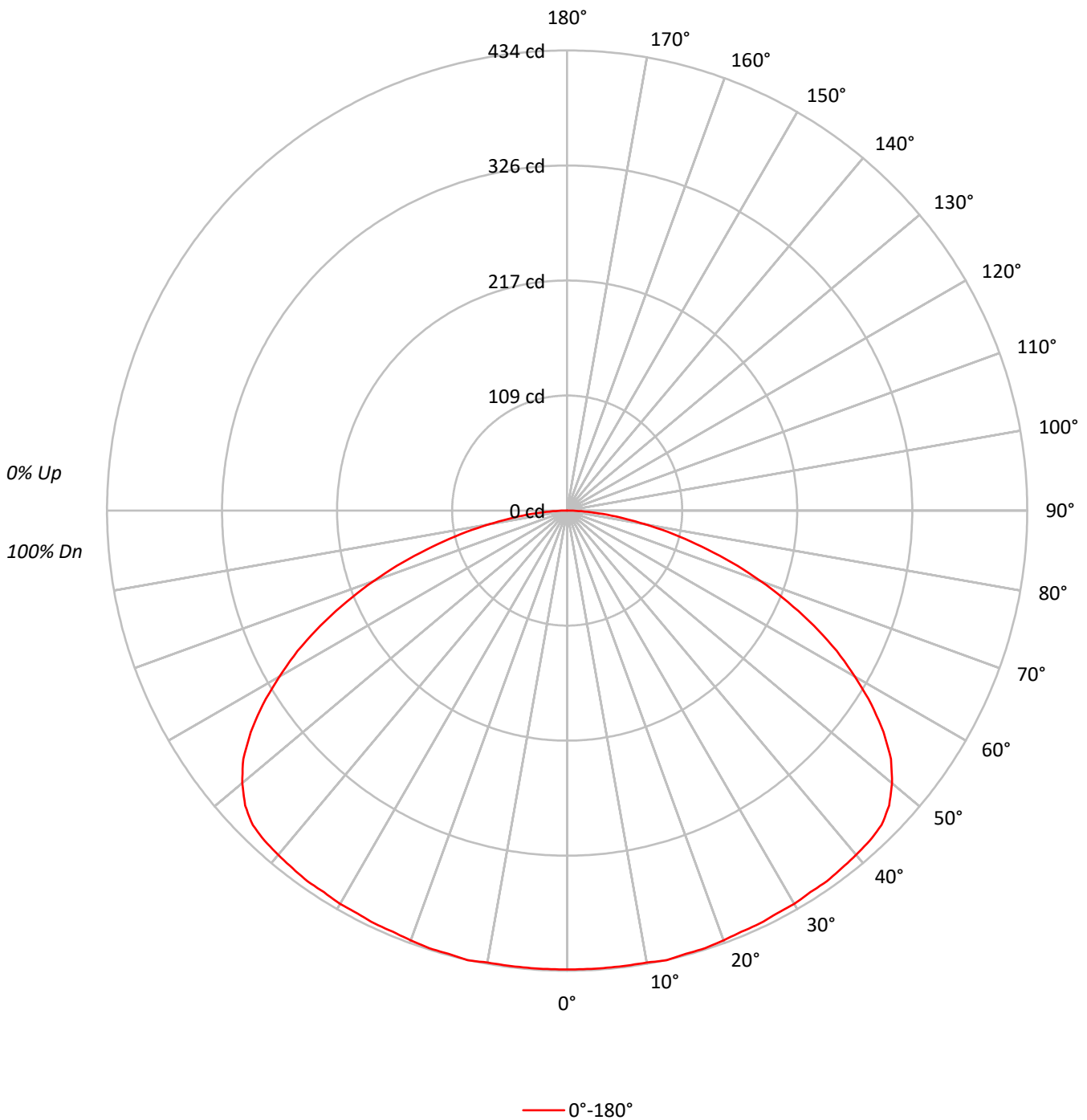
Lumens per Lamp: N/A
Luminaire Lumens: 1705.1 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3443
5°	3456
10°	3496
15°	3565
20°	3652
25°	3773
30°	3935
35°	4145
40°	4402
45°	4719
50°	4951
55°	5052
60°	4987
65°	4832
70°	4513
75°	4036
80°	3418
85°	2720

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	2.4
10°-20°	122.7	7.2
20°-30°	198.7	11.7
30°-40°	267.7	15.7
40°-50°	322.2	18.9
50°-60°	323.6	19.0
60°-70°	253.0	14.8
70°-80°	140.1	8.2
80°-90°	35.7	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°	362.7	21.3
0°-40°	630.5	37.0
0°-60°	1276.4	74.9
0°-90°	1705.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	433	
5°	433	41
15°	433	123
25°	430	199
35°	427	268
45°	419	322
55°	364	324
65°	257	253
75°	131	140
85°	30	36
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	432.8
2.5°	432.8
5°	432.8
7.5°	432.8
10°	432.8
12.5°	434.3
15°	432.8
17.5°	432.8
20°	431.3
22.5°	429.8
25°	429.8
27.5°	428.3
30°	428.3
32.5°	426.8
35°	426.8
37.5°	425.3
40°	423.9
42.5°	422.4
45°	419.4
47.5°	411.9
50°	400.0
52.5°	385.1
55°	364.2
57.5°	340.3
60°	313.4
62.5°	286.6
65°	256.7
67.5°	225.4
70°	194.0
72.5°	162.7
75°	131.3
77.5°	103.0
80°	74.6
82.5°	50.7
85°	29.8
87.5°	13.4
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	18.32	20.06	18.69	20.37	20.68	18.32	20.06	18.69	20.37	20.68
	3H	20.15	21.73	20.53	22.05	22.41	20.15	21.73	20.53	22.05	22.41
	4H	20.80	22.28	21.19	22.63	23.00	20.80	22.28	21.19	22.63	23.00
	6H	21.24	22.62	21.65	22.98	23.37	21.24	22.62	21.65	22.98	23.37
	8H	21.37	22.69	21.79	23.08	23.48	21.37	22.69	21.79	23.08	23.48
	12H	21.45	22.72	21.88	23.10	23.53	21.45	22.72	21.88	23.10	23.53
4H	2H	18.99	20.48	19.39	20.83	21.20	18.99	20.48	19.39	20.83	21.20
	3H	21.03	22.29	21.44	22.68	23.08	21.03	22.29	21.44	22.68	23.08
	4H	21.79	22.93	22.22	23.34	23.77	21.79	22.93	22.22	23.34	23.77
	6H	22.35	23.35	22.80	23.79	24.24	22.35	23.35	22.80	23.79	24.24
	8H	22.52	23.46	22.98	23.90	24.36	22.52	23.46	22.98	23.90	24.36
	12H	22.64	23.49	23.12	23.96	24.43	22.64	23.49	23.12	23.96	24.43
8H	4H	22.10	23.03	22.56	23.47	23.94	22.10	23.03	22.56	23.47	23.94
	6H	22.77	23.54	23.26	24.03	24.50	22.77	23.54	23.26	24.03	24.50
	8H	23.00	23.70	23.50	24.20	24.68	23.00	23.70	23.50	24.20	24.68
	12H	23.18	23.80	23.68	24.29	24.84	23.18	23.80	23.68	24.29	24.84
12H	4H	22.13	22.98	22.61	23.45	23.92	22.13	22.98	22.61	23.45	23.92
	6H	22.81	23.51	23.32	24.02	24.50	22.81	23.51	23.32	24.02	24.50
	8H	23.10	23.72	23.60	24.21	24.76	23.10	23.72	23.60	24.21	24.76