

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: P866324

Luminaire Tested: PRLX-2002-M-935-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866324
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: Prenalux
Catalog Number: PRLX-2002-M-935-65L-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 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

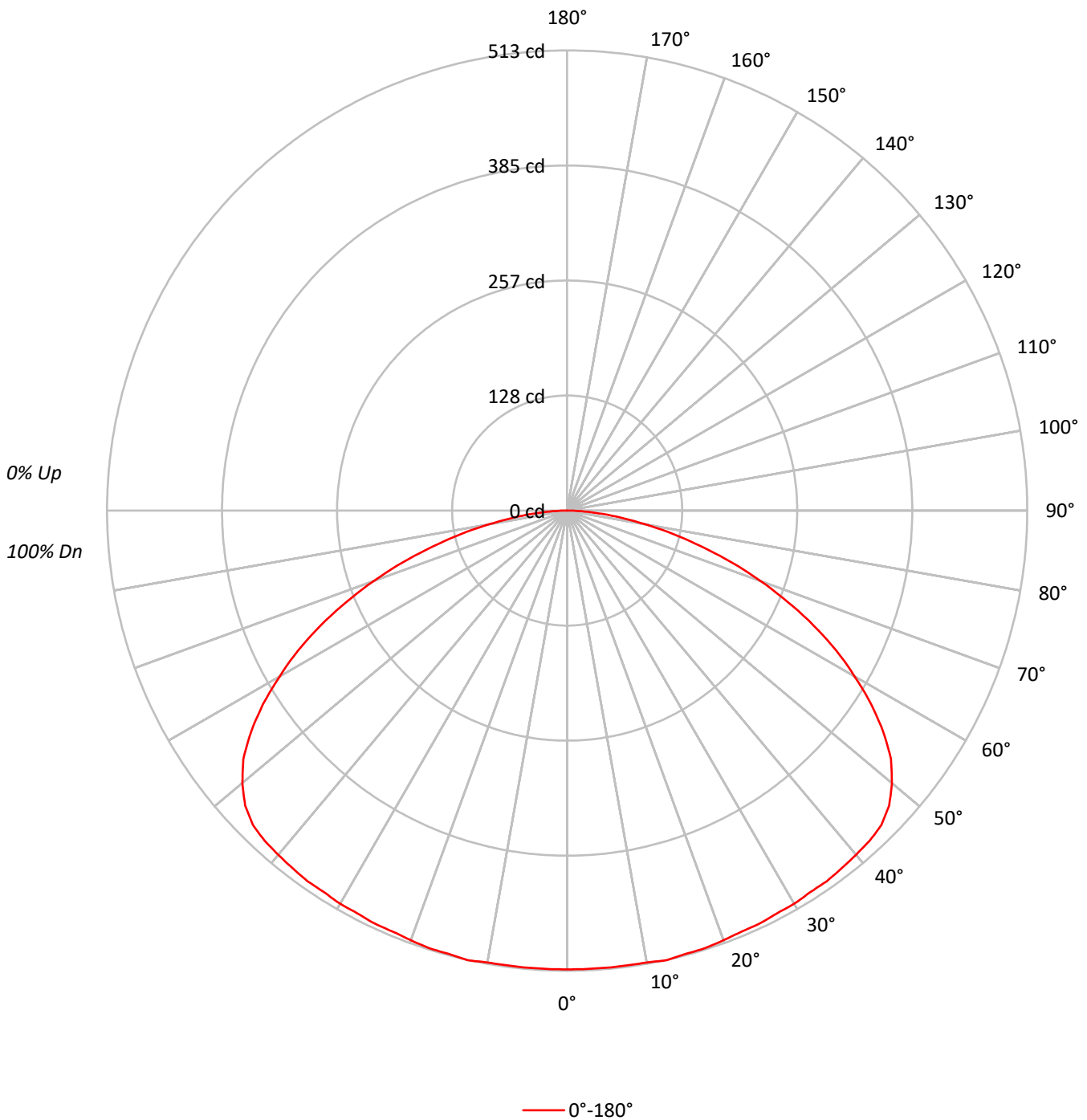
Lumens per Lamp: N/A
Luminaire Lumens: 2015.1 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): 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°	4069
5°	4085
10°	4132
15°	4213
20°	4315
25°	4459
30°	4650
35°	4899
40°	5202
45°	5576
50°	5851
55°	5970
60°	5894
65°	5711
70°	5334
75°	4771
80°	4041
85°	3222

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	2.4
10°-20°	145.0	7.2
20°-30°	234.9	11.7
30°-40°	316.4	15.7
40°-50°	380.8	18.9
50°-60°	382.5	19.0
60°-70°	298.9	14.8
70°-80°	165.5	8.2
80°-90°	42.2	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°	428.7	21.3
0°-40°	745.1	37.0
0°-60°	1508.4	74.9
0°-90°	2015.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	512	
5°	512	49
15°	512	145
25°	508	235
35°	504	316
45°	496	381
55°	430	382
65°	303	299
75°	155	166
85°	35	42
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	511.5
2.5°	511.5
5°	511.5
7.5°	511.5
10°	511.5
12.5°	513.3
15°	511.5
17.5°	511.5
20°	509.7
22.5°	508.0
25°	508.0
27.5°	506.2
30°	506.2
32.5°	504.4
35°	504.4
37.5°	502.7
40°	500.9
42.5°	499.2
45°	495.6
47.5°	486.8
50°	472.7
52.5°	455.1
55°	430.4
57.5°	402.1
60°	370.4
62.5°	338.7
65°	303.4
67.5°	266.3
70°	229.3
72.5°	192.3
75°	155.2
77.5°	121.7
80°	88.2
82.5°	60.0
85°	35.3
87.5°	15.9
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	18.90	20.64	19.26	20.95	21.26	18.90	20.64	19.26	20.95	21.26
	3H	20.73	22.31	21.11	22.63	22.99	20.73	22.31	21.11	22.63	22.99
	4H	21.38	22.86	21.77	23.21	23.58	21.38	22.86	21.77	23.21	23.58
	6H	21.82	23.20	22.23	23.56	23.95	21.82	23.20	22.23	23.56	23.95
	8H	21.95	23.27	22.37	23.66	24.06	21.95	23.27	22.37	23.66	24.06
	12H	22.03	23.30	22.46	23.68	24.11	22.03	23.30	22.46	23.68	24.11
4H	2H	19.57	21.06	19.97	21.41	21.78	19.57	21.06	19.97	21.41	21.78
	3H	21.61	22.86	22.02	23.26	23.66	21.61	22.86	22.02	23.26	23.66
	4H	22.37	23.51	22.80	23.92	24.35	22.37	23.51	22.80	23.92	24.35
	6H	22.93	23.93	23.38	24.37	24.82	22.93	23.93	23.38	24.37	24.82
	8H	23.10	24.04	23.56	24.48	24.94	23.10	24.04	23.56	24.48	24.94
	12H	23.23	24.07	23.70	24.54	25.01	23.23	24.07	23.70	24.54	25.01
8H	4H	22.68	23.61	23.14	24.05	24.52	22.68	23.61	23.14	24.05	24.52
	6H	23.35	24.12	23.84	24.61	25.08	23.35	24.12	23.84	24.61	25.08
	8H	23.58	24.28	24.08	24.78	25.26	23.58	24.28	24.08	24.78	25.26
	12H	23.76	24.38	24.27	24.87	25.43	23.76	24.38	24.27	24.87	25.43
12H	4H	22.71	23.56	23.19	24.03	24.50	22.71	23.56	23.19	24.03	24.50
	6H	23.39	24.09	23.90	24.60	25.08	23.39	24.09	23.90	24.60	25.08
	8H	23.68	24.30	24.19	24.79	25.35	23.68	24.30	24.19	24.79	25.35