

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: P867102

Luminaire Tested: PRLX-2002-L-935-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-83L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

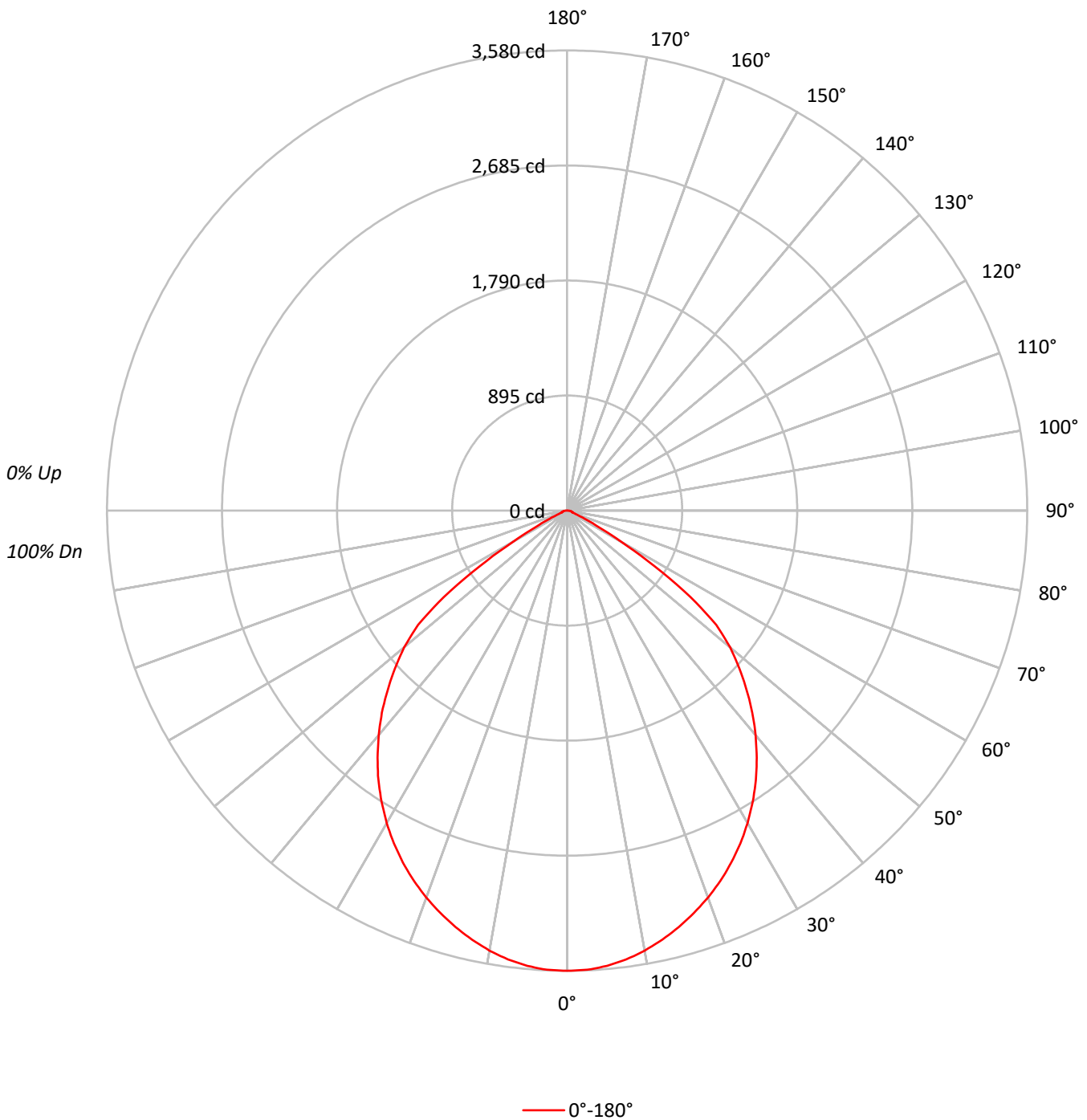
Lumens per Lamp: N/A
Luminaire Lumens: 7036.2 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		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	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	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17663
5°	17610
10°	17414
15°	17136
20°	16823
25°	16454
30°	15990
35°	15424
40°	14685
45°	13780
50°	12699
55°	10095
60°	4752
65°	1716
70°	661
75°	732
80°	838
85°	1002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	4.8
10°-20°	945.4	13.4
20°-30°	1390.6	19.8
30°-40°	1597.7	22.7
40°-50°	1521.7	21.6
50°-60°	1000.7	14.2
60°-70°	184.9	2.6
70°-80°	40.4	0.6
80°-90°	18.1	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°	2672.9	38.0
0°-40°	4270.5	60.7
0°-60°	6792.9	96.5
0°-90°	7036.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7036.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3580	
5°	3556	337
15°	3355	945
25°	3022	1391
35°	2561	1598
45°	1975	1522
55°	1174	1001
65°	147	185
75°	38	40
85°	18	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3580.0
2.5°	3576.3
5°	3555.7
7.5°	3522.4
10°	3475.9
12.5°	3419.0
15°	3354.8
17.5°	3282.4
20°	3204.1
22.5°	3116.9
25°	3022.4
27.5°	2919.0
30°	2806.7
32.5°	2686.3
35°	2560.8
37.5°	2423.4
40°	2280.1
42.5°	2133.1
45°	1975.0
47.5°	1818.5
50°	1654.5
52.5°	1462.4
55°	1173.6
57.5°	804.3
60°	481.6
62.5°	271.1
65°	147.0
67.5°	73.9
70°	45.8
72.5°	42.1
75°	38.4
77.5°	34.7
80°	29.5
82.5°	24.4
85°	17.7
87.5°	9.6
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	17.97	19.37	18.33	19.68	20.00	17.97	19.37	18.33	19.68	20.00
	3H	17.89	19.12	18.27	19.45	19.81	17.89	19.12	18.27	19.45	19.81
	4H	17.84	18.98	18.24	19.33	19.72	17.84	18.98	18.24	19.33	19.72
	6H	17.79	18.84	18.20	19.21	19.60	17.79	18.84	18.20	19.21	19.60
	8H	17.76	18.76	18.19	19.15	19.56	17.76	18.76	18.19	19.15	19.56
	12H	17.74	18.69	18.17	19.07	19.50	17.74	18.69	18.17	19.07	19.50
4H	2H	17.84	18.99	18.25	19.34	19.72	17.84	18.99	18.25	19.34	19.72
	3H	17.77	18.70	18.19	19.10	19.51	17.77	18.70	18.19	19.10	19.51
	4H	17.72	18.55	18.16	18.96	19.41	17.72	18.55	18.16	18.96	19.41
	6H	17.69	18.40	18.15	18.85	19.31	17.69	18.40	18.15	18.85	19.31
	8H	17.66	18.33	18.13	18.77	19.24	17.66	18.33	18.13	18.77	19.24
	12H	17.64	18.23	18.13	18.71	19.19	17.64	18.23	18.13	18.71	19.19
8H	4H	17.61	18.27	18.08	18.72	19.19	17.61	18.27	18.08	18.72	19.19
	6H	17.57	18.12	18.07	18.61	19.09	17.57	18.12	18.07	18.61	19.09
	8H	17.55	18.04	18.07	18.56	19.05	17.55	18.04	18.07	18.56	19.05
	12H	17.55	17.99	18.06	18.48	19.05	17.55	17.99	18.06	18.48	19.05
12H	4H	17.57	18.16	18.05	18.64	19.11	17.57	18.16	18.05	18.64	19.11
	6H	17.52	18.01	18.04	18.53	19.02	17.52	18.01	18.04	18.53	19.02
	8H	17.52	17.96	18.03	18.46	19.03	17.52	17.96	18.03	18.46	19.03