

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: P866974

Luminaire Tested: PRLX-2002-L-927-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866974
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-927-83L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

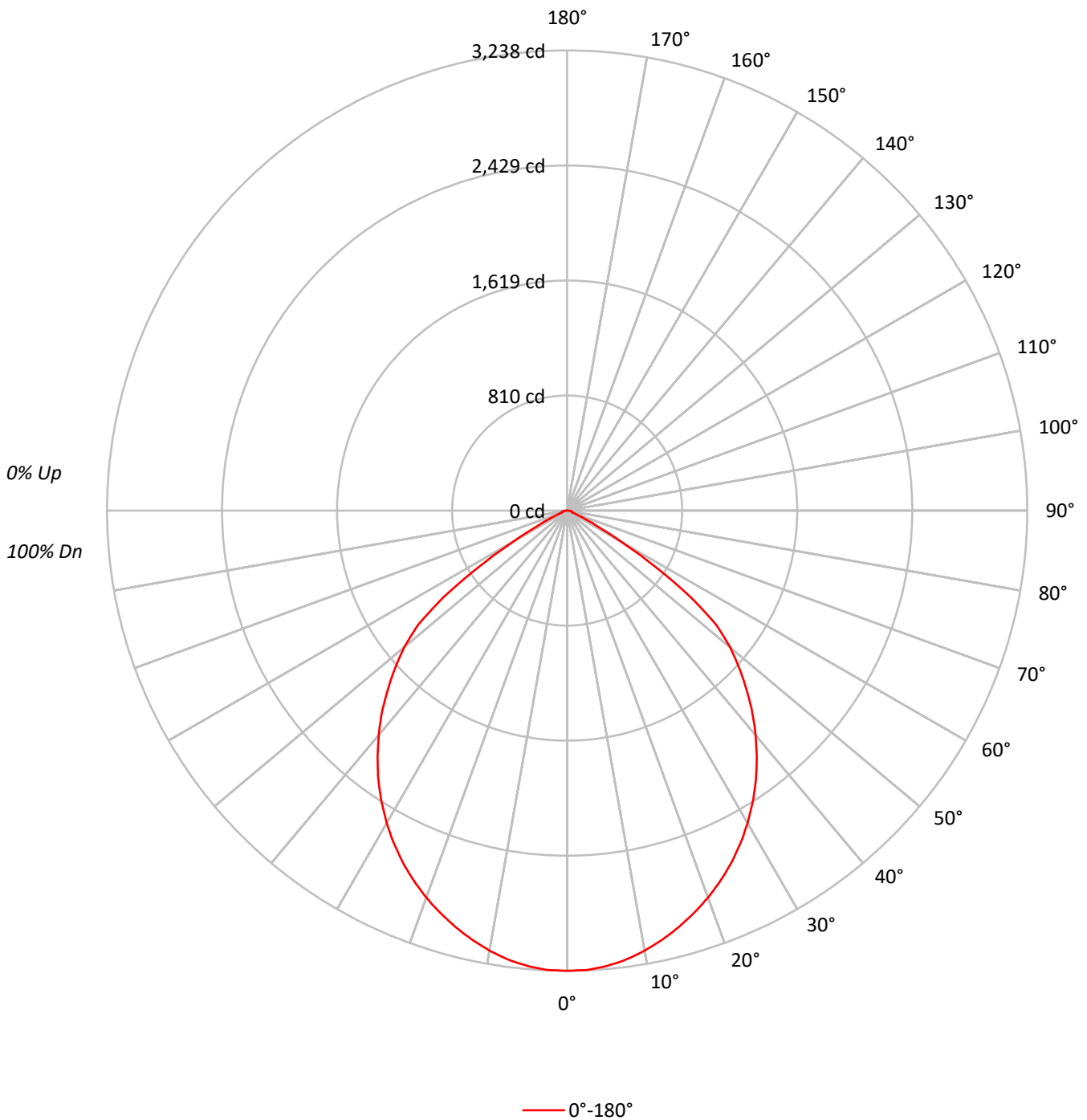
Lumens per Lamp: N/A
Luminaire Lumens: 6364.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	15977
5°	15929
10°	15752
15°	15500
20°	15217
25°	14883
30°	14464
35°	13951
40°	13283
45°	12465
50°	11487
55°	9132
60°	4298
65°	1553
70°	597
75°	661
80°	759
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.7	4.8
10°-20°	855.2	13.4
20°-30°	1257.8	19.8
30°-40°	1445.1	22.7
40°-50°	1376.5	21.6
50°-60°	905.2	14.2
60°-70°	167.2	2.6
70°-80°	36.5	0.6
80°-90°	16.3	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°	2417.7	38.0
0°-40°	3862.8	60.7
0°-60°	6144.5	96.5
0°-90°	6364.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6364.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3238	
5°	3216	305
15°	3034	855
25°	2734	1258
35°	2316	1445
45°	1786	1376
55°	1062	905
65°	133	167
75°	35	37
85°	16	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3238.3
2.5°	3234.9
5°	3216.2
7.5°	3186.2
10°	3144.1
12.5°	3092.6
15°	3034.5
17.5°	2969.0
20°	2898.2
22.5°	2819.4
25°	2733.9
27.5°	2640.3
30°	2538.8
32.5°	2429.9
35°	2316.3
37.5°	2192.0
40°	2062.4
42.5°	1929.5
45°	1786.5
47.5°	1644.9
50°	1496.5
52.5°	1322.8
55°	1061.6
57.5°	727.6
60°	435.6
62.5°	245.2
65°	133.0
67.5°	66.8
70°	41.4
72.5°	38.1
75°	34.7
77.5°	31.4
80°	26.7
82.5°	22.0
85°	16.0
87.5°	8.7
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	17.62	19.02	17.99	19.34	19.65	17.62	19.02	17.99	19.34	19.65
	3H	17.54	18.77	17.92	19.10	19.47	17.54	18.77	17.92	19.10	19.47
	4H	17.49	18.64	17.89	18.99	19.37	17.49	18.64	17.89	18.99	19.37
	6H	17.44	18.49	17.86	18.86	19.26	17.44	18.49	17.86	18.86	19.26
	8H	17.42	18.41	17.85	18.80	19.21	17.42	18.41	17.85	18.80	19.21
	12H	17.39	18.34	17.82	18.73	19.16	17.39	18.34	17.82	18.73	19.16
4H	2H	17.50	18.64	17.90	18.99	19.37	17.50	18.64	17.90	18.99	19.37
	3H	17.43	18.35	17.84	18.75	19.16	17.43	18.35	17.84	18.75	19.16
	4H	17.38	18.20	17.81	18.62	19.06	17.38	18.20	17.81	18.62	19.06
	6H	17.34	18.05	17.81	18.50	18.96	17.34	18.05	17.81	18.50	18.96
	8H	17.32	17.98	17.78	18.42	18.89	17.32	17.98	17.78	18.42	18.89
	12H	17.30	17.88	17.78	18.37	18.84	17.30	17.88	17.78	18.37	18.84
8H	4H	17.26	17.92	17.73	18.37	18.84	17.26	17.92	17.73	18.37	18.84
	6H	17.22	17.77	17.73	18.27	18.75	17.22	17.77	17.73	18.27	18.75
	8H	17.20	17.70	17.72	18.21	18.70	17.20	17.70	17.72	18.21	18.70
	12H	17.20	17.64	17.71	18.14	18.71	17.20	17.64	17.71	18.14	18.71
12H	4H	17.22	17.81	17.71	18.29	18.76	17.22	17.81	17.71	18.29	18.76
	6H	17.17	17.67	17.69	18.18	18.67	17.17	17.67	17.69	18.18	18.67
	8H	17.17	17.61	17.68	18.11	18.68	17.17	17.61	17.68	18.11	18.68