

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: P867178

Luminaire Tested: PRLX-2004-L-927-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-927-100L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

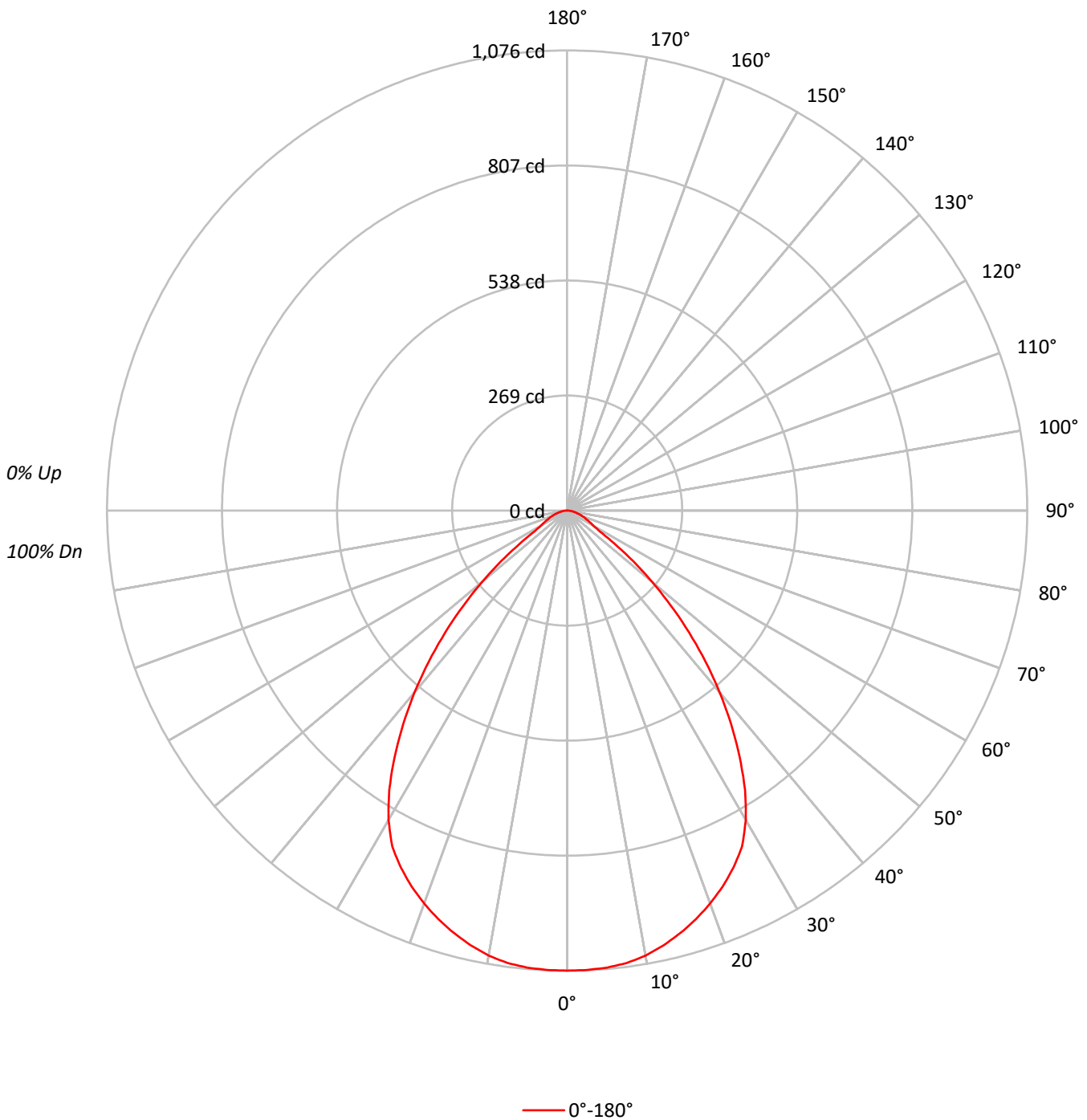
Lumens per Lamp: N/A
Luminaire Lumens: 1774.9 lumens
Efficiency: N/A
Efficacy: 22.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.333 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	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5308
5°	5312
10°	5293
15°	5224
20°	5133
25°	5011
30°	4758
35°	4236
40°	3576
45°	2813
50°	1983
55°	1156
60°	699
65°	601
70°	534
75°	475
80°	435
85°	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2813 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	5.7
10°-20°	288.2	16.2
20°-30°	422.1	23.8
30°-40°	436.7	24.6
40°-50°	310.1	17.5
50°-60°	129.1	7.3
60°-70°	52.1	2.9
70°-80°	26.8	1.5
80°-90°	8.0	0.4
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°	812.2	45.8
0°-40°	1248.9	70.4
0°-60°	1688.0	95.1
0°-90°	1774.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1076	
5°	1073	102
15°	1023	288
25°	920	422
35°	703	437
45°	403	310
55°	134	129
65°	52	52
75°	25	27
85°	7	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1075.8
2.5°	1075.0
5°	1072.6
7.5°	1067.0
10°	1056.5
12.5°	1041.2
15°	1022.7
17.5°	1001.8
20°	977.7
22.5°	951.1
25°	920.5
27.5°	885.9
30°	835.2
32.5°	774.1
35°	703.3
37.5°	630.0
40°	555.2
42.5°	478.8
45°	403.1
47.5°	329.1
50°	258.3
52.5°	194.7
55°	134.4
57.5°	89.3
60°	70.8
62.5°	61.2
65°	51.5
67.5°	44.3
70°	37.0
72.5°	30.6
75°	24.9
77.5°	20.1
80°	15.3
82.5°	11.3
85°	7.2
87.5°	3.2
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	7.73	9.02	8.10	9.33	9.65	7.73	9.02	8.10	9.33	9.65
	3H	8.80	9.94	9.18	10.27	10.63	8.80	9.94	9.18	10.27	10.63
	4H	9.20	10.25	9.60	10.61	10.99	9.20	10.25	9.60	10.61	10.99
	6H	9.50	10.47	9.92	10.84	11.24	9.50	10.47	9.92	10.84	11.24
	8H	9.60	10.52	10.03	10.91	11.32	9.60	10.52	10.03	10.91	11.32
	12H	9.67	10.55	10.11	10.93	11.36	9.67	10.55	10.11	10.93	11.36
4H	2H	8.04	9.10	8.44	9.45	9.83	8.04	9.10	8.44	9.45	9.83
	3H	9.33	10.19	9.74	10.59	11.00	9.33	10.19	9.74	10.59	11.00
	4H	9.84	10.60	10.27	11.02	11.47	9.84	10.60	10.27	11.02	11.47
	6H	10.26	10.92	10.73	11.37	11.84	10.26	10.92	10.73	11.37	11.84
	8H	10.41	11.03	10.88	11.47	11.95	10.41	11.03	10.88	11.47	11.95
	12H	10.52	11.06	11.01	11.55	12.02	10.52	11.06	11.01	11.55	12.02
8H	4H	9.99	10.61	10.46	11.06	11.53	9.99	10.61	10.46	11.06	11.53
	6H	10.53	11.03	11.03	11.53	12.01	10.53	11.03	11.03	11.53	12.01
	8H	10.74	11.20	11.27	11.71	12.21	10.74	11.20	11.27	11.71	12.21
	12H	10.93	11.33	11.44	11.83	12.40	10.93	11.33	11.44	11.83	12.40
12H	4H	9.99	10.53	10.47	11.02	11.49	9.99	10.53	10.47	11.02	11.49
	6H	10.54	11.00	11.07	11.52	12.01	10.54	11.00	11.07	11.52	12.01
	8H	10.81	11.22	11.33	11.71	12.29	10.81	11.22	11.33	11.71	12.29