

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: P866674

Luminaire Tested: PRLX-2001-L-927-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-117L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

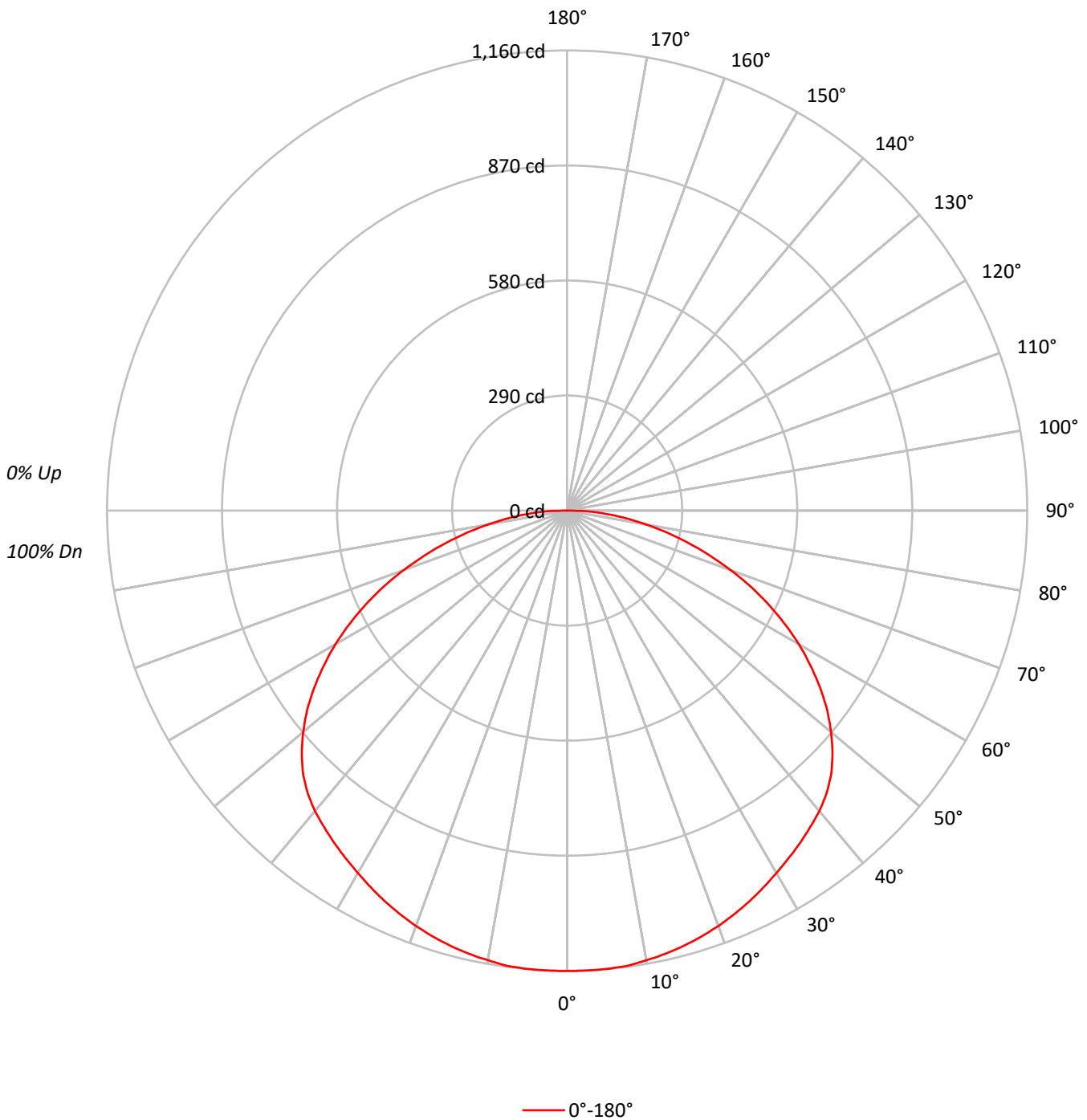
Lumens per Lamp: N/A
Luminaire Lumens: 3993.9 lumens
Efficiency: N/A
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6344
5°	6364
10°	6390
15°	6429
20°	6483
25°	6557
30°	6660
35°	6828
40°	7059
45°	7277
50°	7388
55°	7419
60°	7379
65°	7244
70°	6996
75°	6700
80°	6372
85°	6316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	2.8
10°-20°	321.1	8.0
20°-30°	501.9	12.6
30°-40°	641.6	16.1
40°-50°	723.8	18.1
50°-60°	694.6	17.4
60°-70°	553.2	13.9
70°-80°	335.9	8.4
80°-90°	111.3	2.8
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°	933.5	23.4
0°-40°	1575.1	39.4
0°-60°	2993.5	75.0
0°-90°	3993.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3993.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1160	
5°	1160	110
15°	1136	321
25°	1087	502
35°	1023	642
45°	941	724
55°	778	695
65°	560	553
75°	317	336
85°	101	111
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1160.5
2.5°	1160.5
5°	1159.6
7.5°	1157.7
10°	1151.1
12.5°	1144.5
15°	1136.0
17.5°	1125.7
20°	1114.4
22.5°	1101.2
25°	1087.1
27.5°	1071.1
30°	1055.1
32.5°	1039.1
35°	1023.1
37.5°	1006.2
40°	989.2
42.5°	967.6
45°	941.2
47.5°	907.3
50°	868.7
52.5°	826.4
55°	778.4
57.5°	727.6
60°	674.9
62.5°	618.4
65°	560.0
67.5°	500.7
70°	437.7
72.5°	377.4
75°	317.2
77.5°	258.8
80°	202.4
82.5°	149.7
85°	100.7
87.5°	57.4
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	19.38	21.09	19.74	21.40	21.72	19.38	21.09	19.74	21.40	21.72
	3H	21.34	22.89	21.71	23.22	23.58	21.34	22.89	21.71	23.22	23.58
	4H	22.10	23.57	22.49	23.91	24.29	22.10	23.57	22.49	23.91	24.29
	6H	22.70	24.06	23.11	24.42	24.81	22.70	24.06	23.11	24.42	24.81
	8H	22.91	24.22	23.34	24.61	25.01	22.91	24.22	23.34	24.61	25.01
	12H	23.09	24.34	23.51	24.72	25.15	23.09	24.34	23.51	24.72	25.15
4H	2H	20.07	21.54	20.47	21.88	22.26	20.07	21.54	20.47	21.88	22.26
	3H	22.25	23.49	22.66	23.89	24.28	22.25	23.49	22.66	23.89	24.28
	4H	23.15	24.27	23.58	24.68	25.12	23.15	24.27	23.58	24.68	25.12
	6H	23.89	24.88	24.34	25.31	25.77	23.89	24.88	24.34	25.31	25.77
	8H	24.16	25.09	24.62	25.53	26.00	24.16	25.09	24.62	25.53	26.00
	12H	24.40	25.23	24.87	25.71	26.17	24.40	25.23	24.87	25.71	26.17
8H	4H	23.51	24.44	23.97	24.88	25.34	23.51	24.44	23.97	24.88	25.34
	6H	24.39	25.17	24.88	25.66	26.13	24.39	25.17	24.88	25.66	26.13
	8H	24.76	25.46	25.27	25.96	26.45	24.76	25.46	25.27	25.96	26.45
	12H	25.09	25.71	25.60	26.20	26.76	25.09	25.71	25.60	26.20	26.76
12H	4H	23.56	24.40	24.04	24.87	25.34	23.56	24.40	24.04	24.87	25.34
	6H	24.48	25.18	24.98	25.68	26.16	24.48	25.18	24.98	25.68	26.16
	8H	24.91	25.53	25.42	26.02	26.58	24.91	25.53	25.42	26.02	26.58