

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: P866930

Luminaire Tested: PRLX-2002-L-927-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-117L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

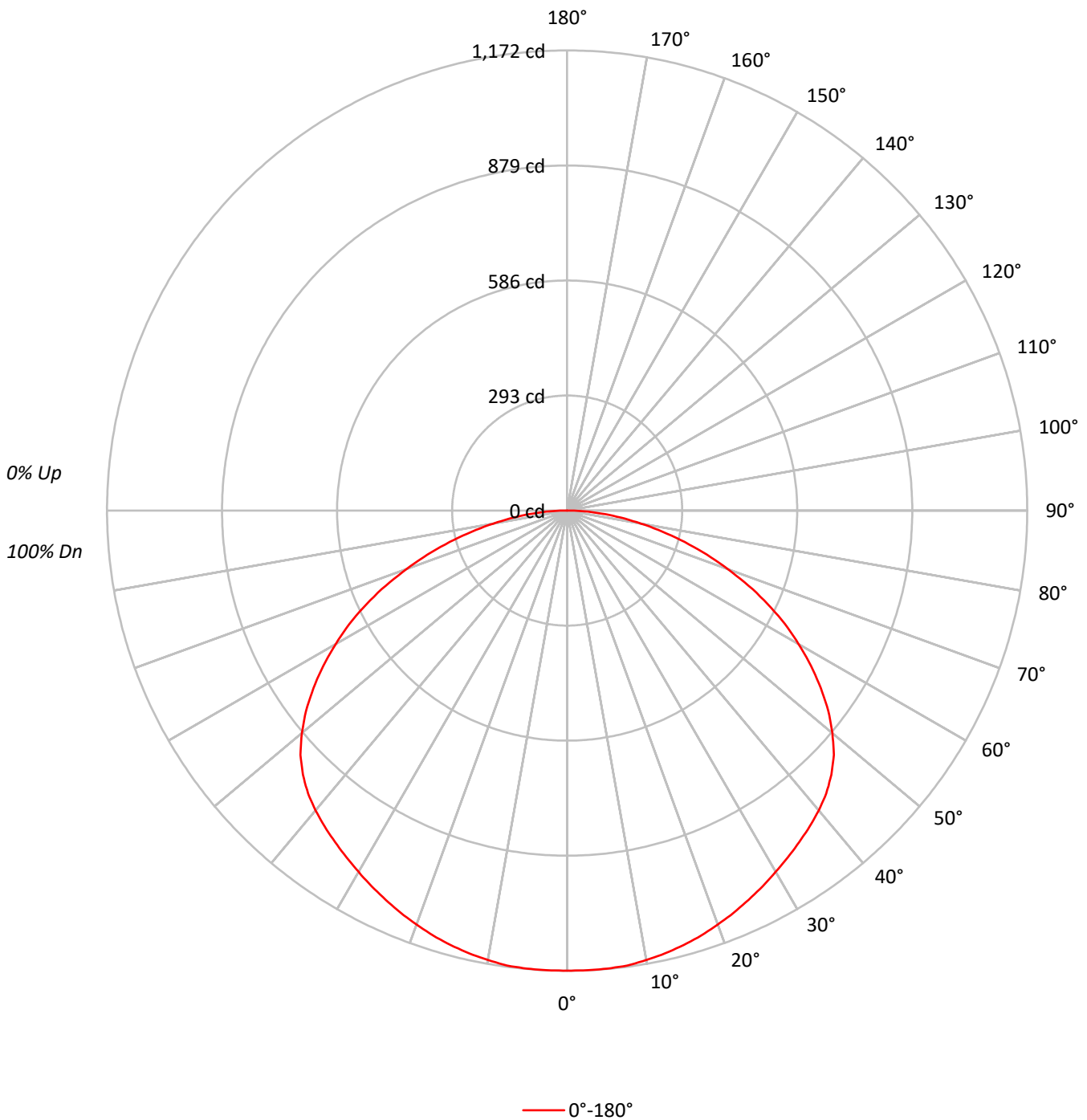
Lumens per Lamp: N/A
Luminaire Lumens: 4007.4 lumens
Efficiency: N/A
Efficacy: 42.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	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		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	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	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5781
5°	5799
10°	5824
15°	5851
20°	5890
25°	5954
30°	6054
35°	6207
40°	6419
45°	6640
50°	6769
55°	6784
60°	6724
65°	6582
70°	6272
75°	5904
80°	5430
85°	5010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6797 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	2.8
10°-20°	323.8	8.1
20°-30°	505.3	12.6
30°-40°	646.5	16.1
40°-50°	732.5	18.3
50°-60°	703.9	17.6
60°-70°	556.2	13.9
70°-80°	328.0	8.2
80°-90°	99.8	2.5
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°	940.6	23.5
0°-40°	1587.1	39.6
0°-60°	3023.5	75.4
0°-90°	4007.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1172	
5°	1171	112
15°	1146	324
25°	1094	505
35°	1031	646
45°	952	732
55°	789	704
65°	564	556
75°	310	328
85°	88	100
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1171.8
2.5°	1171.8
5°	1170.9
7.5°	1169.0
10°	1162.4
12.5°	1154.9
15°	1145.5
17.5°	1135.1
20°	1121.9
22.5°	1108.8
25°	1093.7
27.5°	1078.6
30°	1062.6
32.5°	1046.6
35°	1030.6
37.5°	1014.6
40°	996.7
42.5°	977.0
45°	951.6
47.5°	921.5
50°	881.9
52.5°	838.6
55°	788.7
57.5°	737.0
60°	681.4
62.5°	625.0
65°	563.8
67.5°	500.7
70°	434.8
72.5°	372.7
75°	309.7
77.5°	248.5
80°	191.1
82.5°	137.4
85°	88.5
87.5°	45.2
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	19.10	20.81	19.47	21.12	21.44	19.10	20.81	19.47	21.12	21.44
	3H	21.02	22.57	21.39	22.89	23.25	21.02	22.57	21.39	22.89	23.25
	4H	21.74	23.20	22.14	23.55	23.92	21.74	23.20	22.14	23.55	23.92
	6H	22.28	23.64	22.69	24.01	24.40	22.28	23.64	22.69	24.01	24.40
	8H	22.47	23.77	22.89	24.16	24.56	22.47	23.77	22.89	24.16	24.56
	12H	22.61	23.86	23.04	24.24	24.67	22.61	23.86	23.04	24.24	24.67
4H	2H	19.79	21.25	20.18	21.60	21.97	19.79	21.25	20.18	21.60	21.97
	3H	21.91	23.15	22.32	23.55	23.94	21.91	23.15	22.32	23.55	23.94
	4H	22.77	23.89	23.20	24.30	24.73	22.77	23.89	23.20	24.30	24.73
	6H	23.45	24.43	23.90	24.87	25.32	23.45	24.43	23.90	24.87	25.32
	8H	23.69	24.61	24.15	25.05	25.51	23.69	24.61	24.15	25.05	25.51
	12H	23.88	24.71	24.36	25.18	25.65	23.88	24.71	24.36	25.18	25.65
8H	4H	23.11	24.03	23.57	24.48	24.94	23.11	24.03	23.57	24.48	24.94
	6H	23.92	24.69	24.41	25.18	25.65	23.92	24.69	24.41	25.18	25.65
	8H	24.25	24.94	24.75	25.44	25.92	24.25	24.94	24.75	25.44	25.92
	12H	24.52	25.13	25.02	25.62	26.18	24.52	25.13	25.02	25.62	26.18
12H	4H	23.16	23.99	23.64	24.46	24.93	23.16	23.99	23.64	24.46	24.93
	6H	23.99	24.69	24.50	25.19	25.67	23.99	24.69	24.50	25.19	25.67
	8H	24.38	24.99	24.88	25.48	26.04	24.38	24.99	24.88	25.48	26.04