

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: P867066

Luminaire Tested: PRLX-2002-L-935-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867066
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-935-133L-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 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

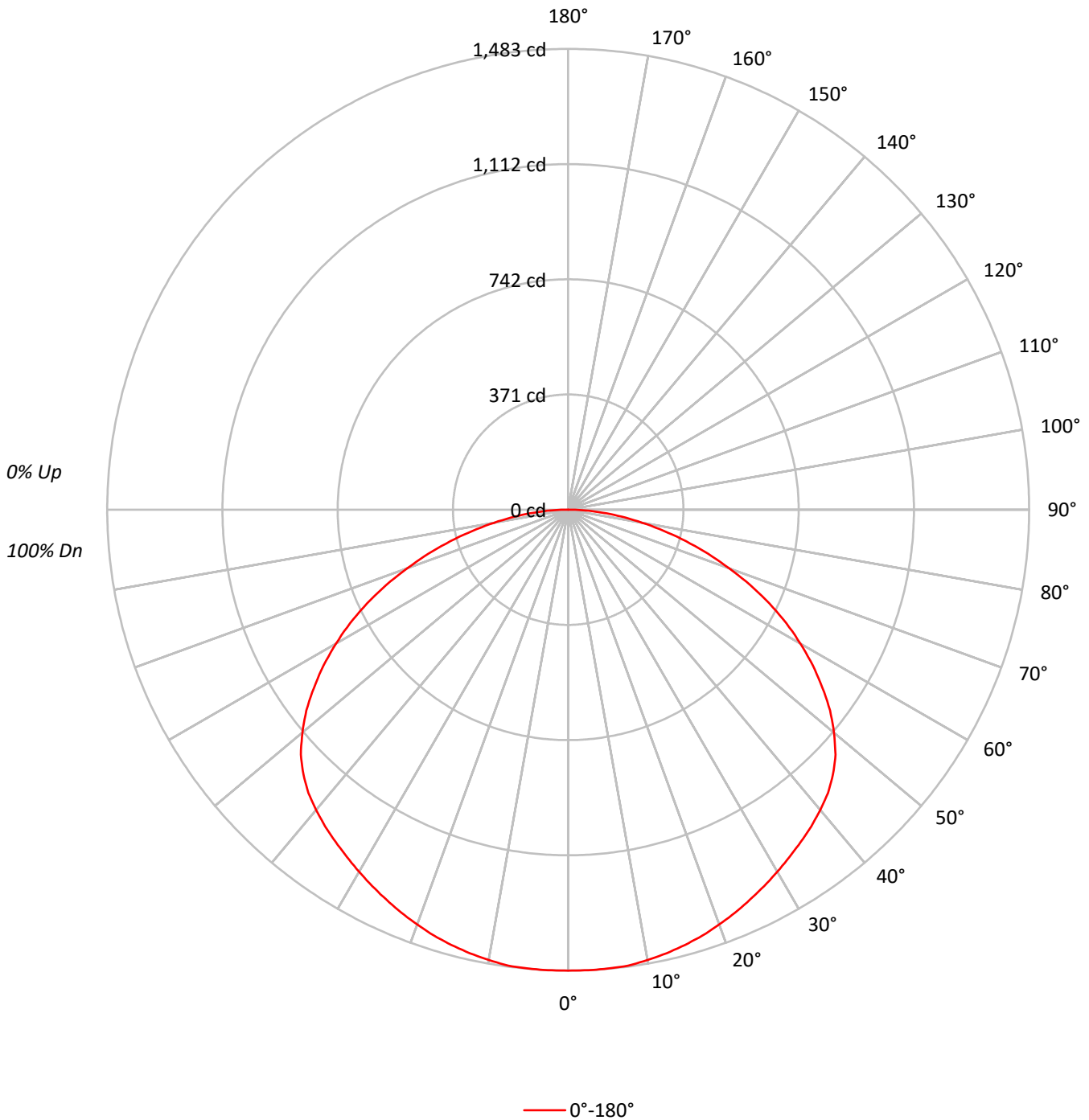
Lumens per Lamp: N/A
Luminaire Lumens: 5073.2 lumens
Efficiency: N/A
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	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°	7319
5°	7341
10°	7372
15°	7407
20°	7457
25°	7538
30°	7664
35°	7858
40°	8127
45°	8405
50°	8570
55°	8589
60°	8513
65°	8332
70°	7941
75°	7473
80°	6873
85°	6340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 8604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	2.8
10°-20°	409.9	8.1
20°-30°	639.6	12.6
30°-40°	818.4	16.1
40°-50°	927.3	18.3
50°-60°	891.1	17.6
60°-70°	704.1	13.9
70°-80°	415.2	8.2
80°-90°	126.3	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°	1190.8	23.5
0°-40°	2009.2	39.6
0°-60°	3827.6	75.4
0°-90°	5073.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5073.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1483	
5°	1482	141
15°	1450	410
25°	1385	640
35°	1305	818
45°	1205	927
55°	998	891
65°	714	704
75°	392	415
85°	112	126
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1483.4
2.5°	1483.4
5°	1482.3
7.5°	1479.9
10°	1471.5
12.5°	1462.0
15°	1450.1
17.5°	1437.0
20°	1420.3
22.5°	1403.6
25°	1384.6
27.5°	1365.5
30°	1345.2
32.5°	1325.0
35°	1304.7
37.5°	1284.5
40°	1261.8
42.5°	1236.8
45°	1204.6
47.5°	1166.5
50°	1116.5
52.5°	1061.6
55°	998.5
57.5°	933.0
60°	862.7
62.5°	791.2
65°	713.7
67.5°	633.9
70°	550.5
72.5°	471.8
75°	392.0
77.5°	314.6
80°	241.9
82.5°	174.0
85°	112.0
87.5°	57.2
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	19.92	21.63	20.28	21.94	22.26	19.92	21.63	20.28	21.94	22.26
	3H	21.84	23.39	22.21	23.71	24.07	21.84	23.39	22.21	23.71	24.07
	4H	22.56	24.02	22.95	24.37	24.74	22.56	24.02	22.95	24.37	24.74
	6H	23.10	24.46	23.51	24.83	25.22	23.10	24.46	23.51	24.83	25.22
	8H	23.29	24.59	23.71	24.98	25.38	23.29	24.59	23.71	24.98	25.38
	12H	23.43	24.68	23.86	25.06	25.49	23.43	24.68	23.86	25.06	25.49
4H	2H	20.60	22.07	21.00	22.42	22.79	20.60	22.07	21.00	22.42	22.79
	3H	22.73	23.97	23.14	24.36	24.76	22.73	23.97	23.14	24.36	24.76
	4H	23.59	24.71	24.02	25.12	25.55	23.59	24.71	24.02	25.12	25.55
	6H	24.27	25.25	24.72	25.69	26.14	24.27	25.25	24.72	25.69	26.14
	8H	24.51	25.43	24.97	25.87	26.33	24.51	25.43	24.97	25.87	26.33
	12H	24.70	25.53	25.18	26.00	26.47	24.70	25.53	25.18	26.00	26.47
8H	4H	23.93	24.85	24.39	25.29	25.76	23.93	24.85	24.39	25.29	25.76
	6H	24.74	25.51	25.23	26.00	26.47	24.74	25.51	25.23	26.00	26.47
	8H	25.06	25.76	25.57	26.26	26.74	25.06	25.76	25.57	26.26	26.74
	12H	25.34	25.95	25.84	26.44	27.00	25.34	25.95	25.84	26.44	27.00
12H	4H	23.98	24.81	24.46	25.28	25.75	23.98	24.81	24.46	25.28	25.75
	6H	24.81	25.51	25.32	26.01	26.49	24.81	25.51	25.32	26.01	26.49
	8H	25.20	25.81	25.70	26.30	26.86	25.20	25.81	25.70	26.30	26.86