

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: P867002

Luminaire Tested: PRLX-2002-L-930-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867002
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-930-133L-G-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

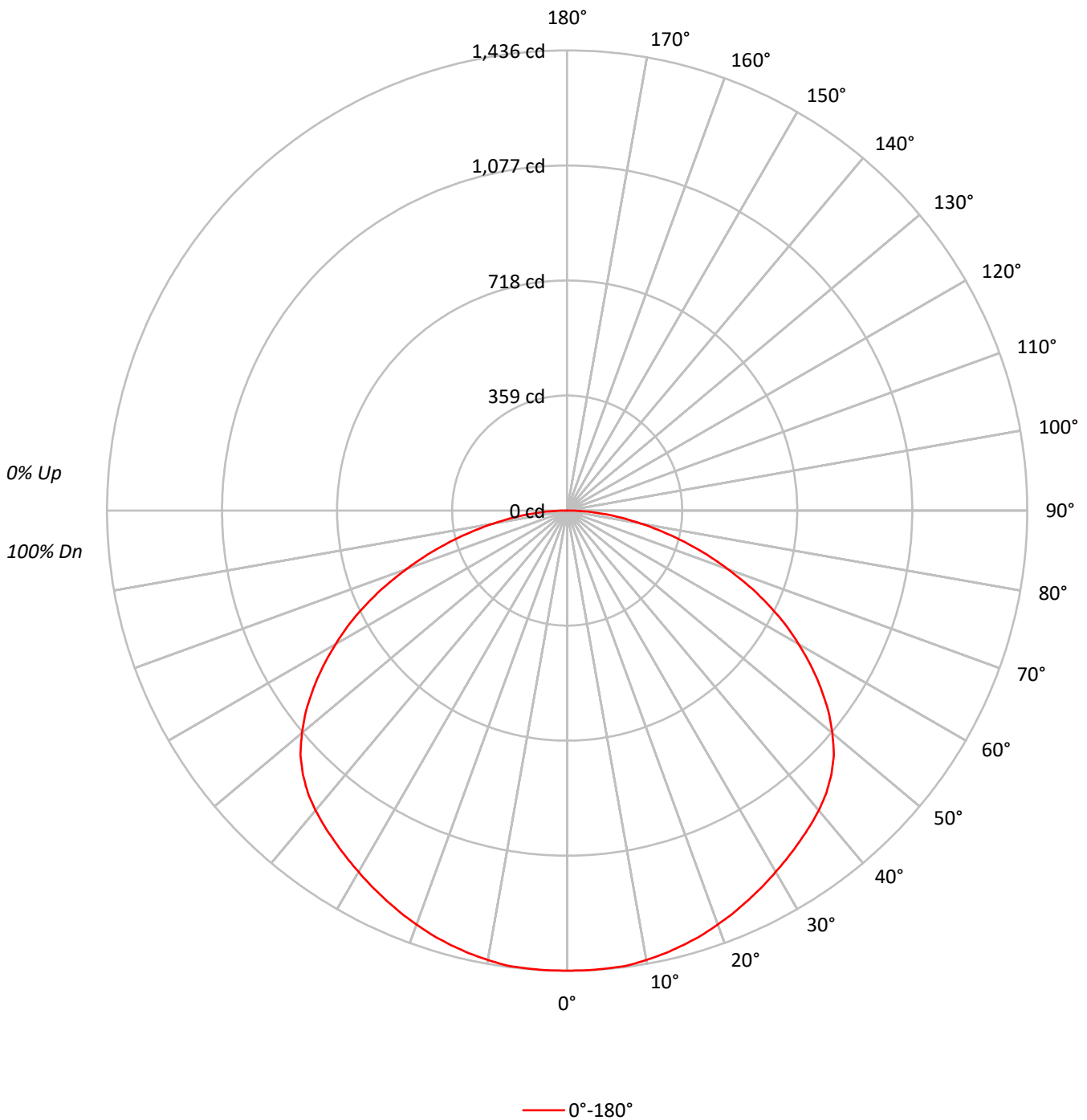
Lumens per Lamp: N/A
Luminaire Lumens: 4910.0 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	7083
5°	7105
10°	7135
15°	7168
20°	7217
25°	7295
30°	7418
35°	7605
40°	7865
45°	8135
50°	8294
55°	8313
60°	8238
65°	8065
70°	7686
75°	7232
80°	6651
85°	6136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 8328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	2.8
10°-20°	396.8	8.1
20°-30°	619.1	12.6
30°-40°	792.1	16.1
40°-50°	897.4	18.3
50°-60°	862.4	17.6
60°-70°	681.5	13.9
70°-80°	401.9	8.2
80°-90°	122.2	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°	1152.5	23.5
0°-40°	1944.6	39.6
0°-60°	3704.4	75.4
0°-90°	4910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4910.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1436	
5°	1435	137
15°	1403	397
25°	1340	619
35°	1263	792
45°	1166	897
55°	966	862
65°	691	681
75°	379	402
85°	108	122
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1435.7
2.5°	1435.7
5°	1434.6
7.5°	1432.3
10°	1424.2
12.5°	1415.0
15°	1403.4
17.5°	1390.8
20°	1374.6
22.5°	1358.5
25°	1340.0
27.5°	1321.6
30°	1302.0
32.5°	1282.4
35°	1262.7
37.5°	1243.1
40°	1221.2
42.5°	1197.0
45°	1165.9
47.5°	1129.0
50°	1080.5
52.5°	1027.5
55°	966.4
57.5°	903.0
60°	834.9
62.5°	765.7
65°	690.8
67.5°	613.5
70°	532.8
72.5°	456.7
75°	379.4
77.5°	304.4
80°	234.1
82.5°	168.4
85°	108.4
87.5°	55.4
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	19.81	21.51	20.17	21.83	22.14	19.81	21.51	20.17	21.83	22.14
	3H	21.72	23.27	22.10	23.60	23.96	21.72	23.27	22.10	23.60	23.96
	4H	22.44	23.91	22.84	24.26	24.63	22.44	23.91	22.84	24.26	24.63
	6H	22.99	24.35	23.40	24.71	25.10	22.99	24.35	23.40	24.71	25.10
	8H	23.18	24.48	23.60	24.87	25.26	23.18	24.48	23.60	24.87	25.26
	12H	23.31	24.56	23.74	24.94	25.37	23.31	24.56	23.74	24.94	25.37
4H	2H	20.49	21.96	20.89	22.30	22.68	20.49	21.96	20.89	22.30	22.68
	3H	22.62	23.86	23.03	24.25	24.65	22.62	23.86	23.03	24.25	24.65
	4H	23.47	24.60	23.90	25.01	25.44	23.47	24.60	23.90	25.01	25.44
	6H	24.15	25.14	24.60	25.58	26.03	24.15	25.14	24.60	25.58	26.03
	8H	24.39	25.32	24.85	25.76	26.22	24.39	25.32	24.85	25.76	26.22
	12H	24.58	25.42	25.06	25.89	26.36	24.58	25.42	25.06	25.89	26.36
8H	4H	23.82	24.74	24.28	25.18	25.64	23.82	24.74	24.28	25.18	25.64
	6H	24.63	25.40	25.12	25.88	26.36	24.63	25.40	25.12	25.88	26.36
	8H	24.95	25.64	25.46	26.15	26.63	24.95	25.64	25.46	26.15	26.63
	12H	25.23	25.84	25.73	26.33	26.88	25.23	25.84	25.73	26.33	26.88
12H	4H	23.86	24.70	24.34	25.17	25.64	23.86	24.70	24.34	25.17	25.64
	6H	24.70	25.39	25.20	25.90	26.38	24.70	25.39	25.20	25.90	26.38
	8H	25.09	25.70	25.59	26.19	26.74	25.09	25.70	25.59	26.19	26.74