

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: P866998

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

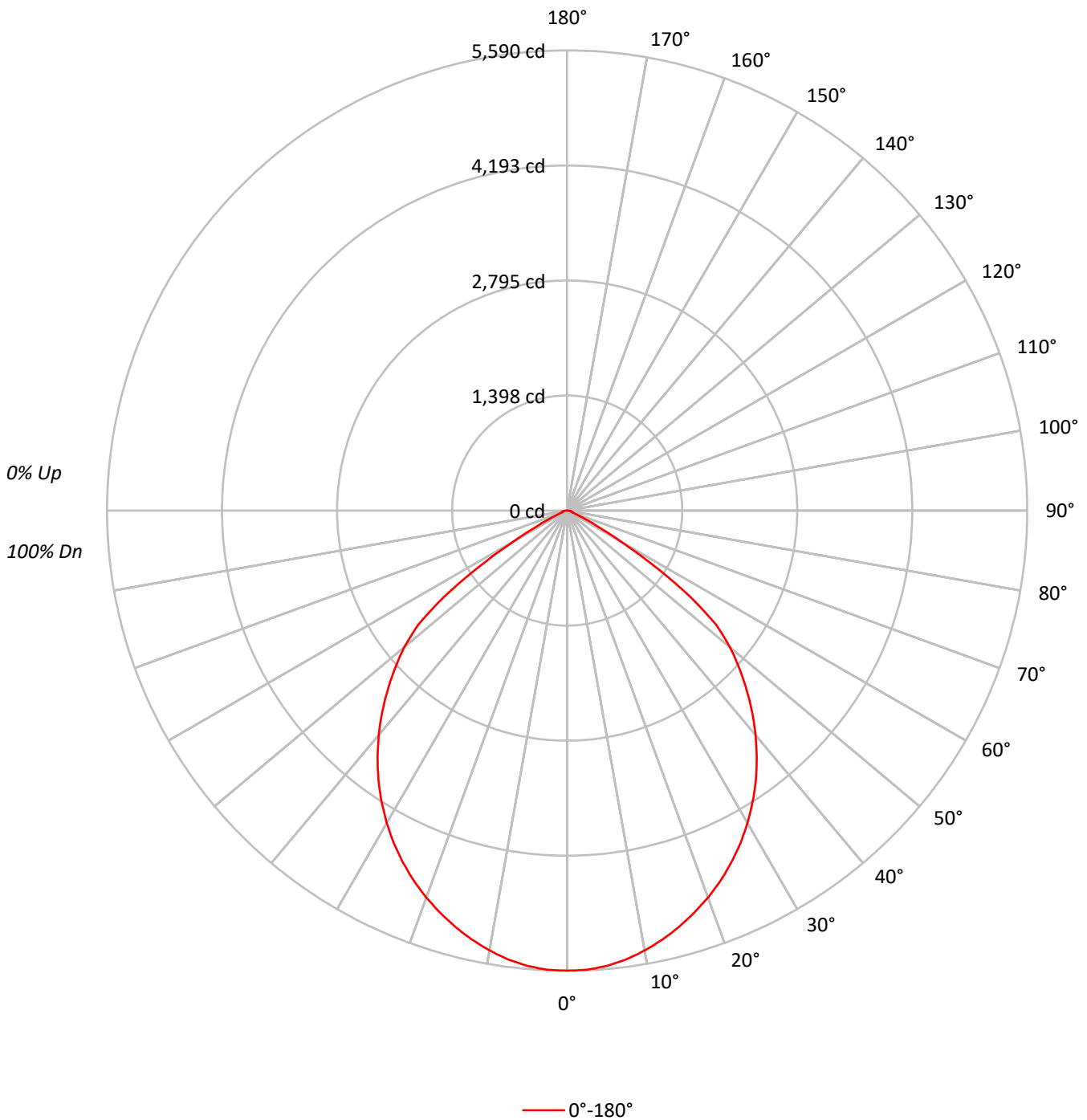
Lumens per Lamp: N/A
Luminaire Lumens: 10985.7 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27578
5°	27495
10°	27188
15°	26754
20°	26265
25°	25689
30°	24965
35°	24081
40°	22928
45°	21516
50°	19828
55°	15762
60°	7419
65°	2679
70°	1031
75°	1144
80°	1310
85°	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.0	4.8
10°-20°	1476.1	13.4
20°-30°	2171.1	19.8
30°-40°	2494.4	22.7
40°-50°	2375.9	21.6
50°-60°	1562.4	14.2
60°-70°	288.6	2.6
70°-80°	63.0	0.6
80°-90°	28.3	0.3
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°	4173.2	38.0
0°-40°	6667.6	60.7
0°-60°	10605.8	96.5
0°-90°	10985.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10985.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5590	
5°	5552	526
15°	5238	1476
25°	4719	2171
35°	3998	2494
45°	3084	2376
55°	1832	1562
65°	230	289
75°	60	63
85°	28	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5589.5
2.5°	5583.8
5°	5551.5
7.5°	5499.6
10°	5426.9
12.5°	5338.1
15°	5237.8
17.5°	5124.8
20°	5002.5
22.5°	4866.5
25°	4718.9
27.5°	4557.4
30°	4382.1
32.5°	4194.2
35°	3998.1
37.5°	3783.6
40°	3559.9
42.5°	3330.4
45°	3083.6
47.5°	2839.2
50°	2583.2
52.5°	2283.3
55°	1832.4
57.5°	1255.8
60°	751.9
62.5°	423.2
65°	229.5
67.5°	115.3
70°	71.5
72.5°	65.7
75°	60.0
77.5°	54.2
80°	46.1
82.5°	38.1
85°	27.7
87.5°	15.0
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	19.52	20.92	19.88	21.23	21.55	19.52	20.92	19.88	21.23	21.55
	3H	19.43	20.67	19.81	21.00	21.36	19.43	20.67	19.81	21.00	21.36
	4H	19.39	20.53	19.79	20.88	21.26	19.39	20.53	19.79	20.88	21.26
	6H	19.34	20.39	19.75	20.76	21.15	19.34	20.39	19.75	20.76	21.15
	8H	19.31	20.31	19.74	20.70	21.10	19.31	20.31	19.74	20.70	21.10
	12H	19.29	20.24	19.72	20.62	21.05	19.29	20.24	19.72	20.62	21.05
4H	2H	19.39	20.54	19.79	20.89	21.27	19.39	20.54	19.79	20.89	21.27
	3H	19.32	20.25	19.74	20.65	21.05	19.32	20.25	19.74	20.65	21.05
	4H	19.27	20.09	19.71	20.51	20.95	19.27	20.09	19.71	20.51	20.95
	6H	19.24	19.95	19.70	20.39	20.86	19.24	19.95	19.70	20.39	20.86
	8H	19.21	19.87	19.68	20.32	20.79	19.21	19.87	19.68	20.32	20.79
	12H	19.19	19.78	19.68	20.26	20.74	19.19	19.78	19.68	20.26	20.74
8H	4H	19.16	19.82	19.63	20.27	20.74	19.16	19.82	19.63	20.27	20.74
	6H	19.12	19.67	19.62	20.16	20.64	19.12	19.67	19.62	20.16	20.64
	8H	19.10	19.59	19.62	20.11	20.60	19.10	19.59	19.62	20.11	20.60
	12H	19.09	19.54	19.61	20.03	20.60	19.09	19.54	19.61	20.03	20.60
12H	4H	19.12	19.70	19.60	20.19	20.66	19.12	19.70	19.60	20.19	20.66
	6H	19.07	19.56	19.59	20.08	20.57	19.07	19.56	19.59	20.08	20.57
	8H	19.07	19.51	19.58	20.01	20.57	19.07	19.51	19.58	20.01	20.57