

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: P866677

Luminaire Tested: PRLX-2001-L-927-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-133L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

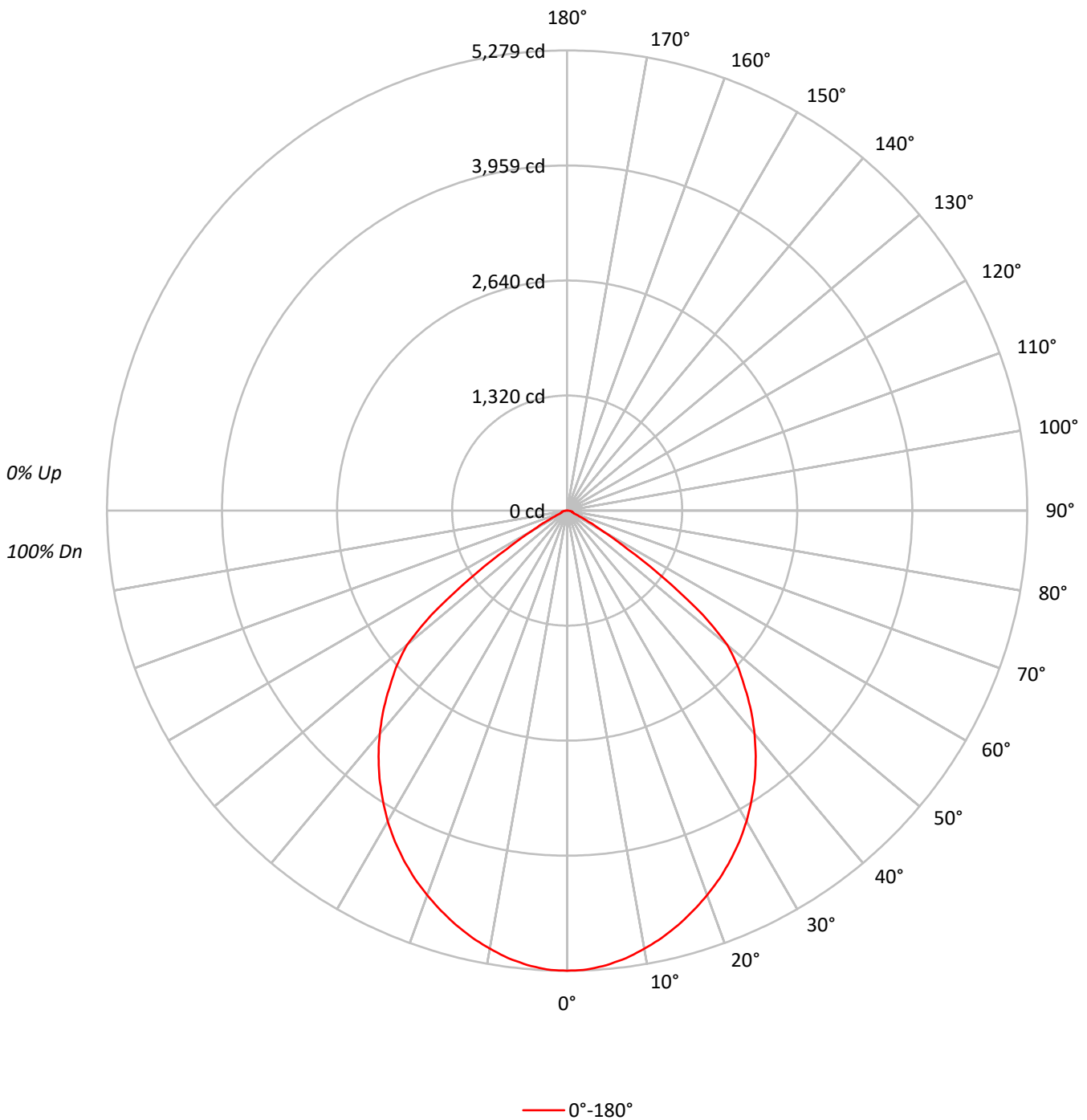
Lumens per Lamp: N/A
Luminaire Lumens: 10006.2 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.333 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	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28859
5°	28721
10°	28329
15°	27852
20°	27319
25°	26713
30°	25976
35°	25038
40°	23867
45°	22331
50°	20413
55°	12954
60°	5138
65°	1966
70°	1189
75°	1297
80°	1458
85°	1625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22331 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.5	5.0
10°-20°	1386.8	13.9
20°-30°	2038.4	20.4
30°-40°	2342.2	23.4
40°-50°	2225.3	22.2
50°-60°	1233.9	12.3
60°-70°	192.6	1.9
70°-80°	64.6	0.6
80°-90°	26.8	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°	3920.7	39.2
0°-40°	6263.0	62.6
0°-60°	9722.2	97.2
0°-90°	10006.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10006.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5279	
5°	5234	495
15°	4921	1387
25°	4429	2038
35°	3752	2342
45°	2888	2225
55°	1359	1234
65°	152	193
75°	61	65
85°	26	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5278.9
2.5°	5270.3
5°	5233.7
7.5°	5178.7
10°	5103.3
12.5°	5020.3
15°	4921.1
17.5°	4812.3
20°	4695.9
22.5°	4569.8
25°	4428.6
27.5°	4279.8
30°	4114.9
32.5°	3938.2
35°	3751.7
37.5°	3554.5
40°	3344.3
42.5°	3125.5
45°	2888.4
47.5°	2658.9
50°	2400.2
52.5°	1959.4
55°	1359.1
57.5°	826.7
60°	469.9
62.5°	279.1
65°	152.0
67.5°	83.0
70°	74.4
72.5°	67.9
75°	61.4
77.5°	55.0
80°	46.3
82.5°	36.6
85°	25.9
87.5°	12.9
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	17.31	18.69	17.67	19.00	19.31	17.31	18.69	17.67	19.00	19.31
	3H	17.25	18.46	17.63	18.79	19.15	17.25	18.46	17.63	18.79	19.15
	4H	17.22	18.35	17.63	18.70	19.08	17.22	18.35	17.63	18.70	19.08
	6H	17.21	18.24	17.63	18.61	19.00	17.21	18.24	17.63	18.61	19.00
	8H	17.20	18.18	17.63	18.57	18.97	17.20	18.18	17.63	18.57	18.97
	12H	17.19	18.12	17.62	18.50	18.93	17.19	18.12	17.62	18.50	18.93
4H	2H	17.18	18.30	17.58	18.65	19.04	17.18	18.30	17.58	18.65	19.04
	3H	17.15	18.05	17.56	18.46	18.86	17.15	18.05	17.56	18.46	18.86
	4H	17.14	17.94	17.57	18.36	18.81	17.14	17.94	17.57	18.36	18.81
	6H	17.16	17.86	17.63	18.30	18.77	17.16	17.86	17.63	18.30	18.77
	8H	17.16	17.81	17.63	18.26	18.73	17.16	17.81	17.63	18.26	18.73
	12H	17.17	17.74	17.66	18.23	18.70	17.17	17.74	17.66	18.23	18.70
8H	4H	17.05	17.70	17.52	18.14	18.61	17.05	17.70	17.52	18.14	18.61
	6H	17.09	17.62	17.59	18.12	18.60	17.09	17.62	17.59	18.12	18.60
	8H	17.11	17.60	17.63	18.11	18.60	17.11	17.60	17.63	18.11	18.60
	12H	17.15	17.58	17.66	18.08	18.65	17.15	17.58	17.66	18.08	18.65
12H	4H	17.01	17.59	17.50	18.07	18.54	17.01	17.59	17.50	18.07	18.54
	6H	17.05	17.53	17.57	18.05	18.54	17.05	17.53	17.57	18.05	18.54
	8H	17.10	17.53	17.61	18.03	18.60	17.10	17.53	17.61	18.03	18.60