

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: P866713

Luminaire Tested: PRLX-2001-L-927-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-67L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

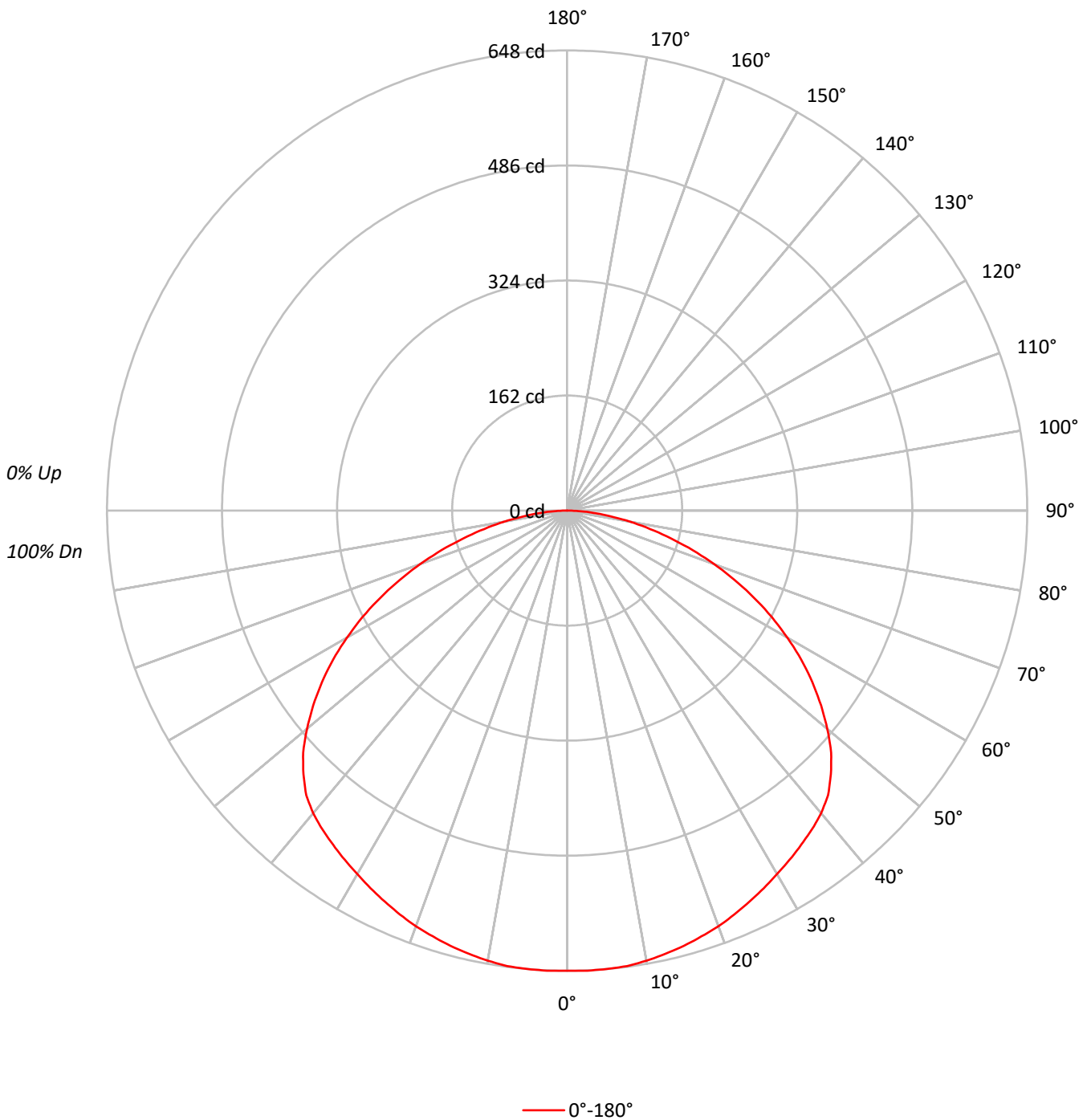
Lumens per Lamp: N/A
Luminaire Lumens: 2153.4 lumens
Efficiency: N/A
Efficacy: 42.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3542
5°	3556
10°	3573
15°	3592
20°	3624
25°	3664
30°	3731
35°	3835
40°	3971
45°	4060
50°	4069
55°	4017
60°	3918
65°	3754
70°	3508
75°	3189
80°	2827
85°	2302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 4082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	2.9
10°-20°	179.4	8.3
20°-30°	280.7	13.0
30°-40°	360.4	16.7
40°-50°	404.0	18.8
50°-60°	376.2	17.5
60°-70°	286.7	13.3
70°-80°	161.0	7.5
80°-90°	43.1	2.0
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°	521.9	24.2
0°-40°	882.3	41.0
0°-60°	1662.5	77.2
0°-90°	2153.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	648	
5°	648	62
15°	635	179
25°	608	281
35°	575	360
45°	525	404
55°	422	376
65°	290	287
75°	151	161
85°	37	43
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	647.9
2.5°	648.5
5°	647.9
7.5°	646.9
10°	643.7
12.5°	639.4
15°	634.7
17.5°	628.8
20°	623.0
22.5°	615.5
25°	607.5
27.5°	599.6
30°	591.1
32.5°	583.1
35°	574.6
37.5°	566.1
40°	556.5
42.5°	543.8
45°	525.2
47.5°	504.4
50°	478.4
52.5°	450.7
55°	421.5
57.5°	391.2
60°	358.3
62.5°	324.8
65°	290.2
67.5°	255.1
70°	219.5
72.5°	185.5
75°	151.0
77.5°	119.6
80°	89.8
82.5°	61.1
85°	36.7
87.5°	15.9
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	17.24	18.92	17.60	19.24	19.55	17.24	18.92	17.60	19.24	19.55
	3H	19.02	20.55	19.40	20.87	21.23	19.02	20.55	19.40	20.87	21.23
	4H	19.66	21.11	20.06	21.45	21.83	19.66	21.11	20.06	21.45	21.83
	6H	20.13	21.47	20.54	21.83	22.22	20.13	21.47	20.54	21.83	22.22
	8H	20.27	21.55	20.70	21.94	22.34	20.27	21.55	20.70	21.94	22.34
	12H	20.37	21.59	20.80	21.97	22.40	20.37	21.59	20.80	21.97	22.40
4H	2H	17.88	19.32	18.28	19.67	20.04	17.88	19.32	18.28	19.67	20.04
	3H	19.88	21.09	20.28	21.48	21.88	19.88	21.09	20.28	21.48	21.88
	4H	20.64	21.74	21.07	22.15	22.59	20.64	21.74	21.07	22.15	22.59
	6H	21.24	22.20	21.69	22.64	23.09	21.24	22.20	21.69	22.64	23.09
	8H	21.42	22.32	21.88	22.76	23.23	21.42	22.32	21.88	22.76	23.23
	12H	21.56	22.37	22.04	22.84	23.31	21.56	22.37	22.04	22.84	23.31
8H	4H	20.95	21.85	21.41	22.29	22.76	20.95	21.85	21.41	22.29	22.76
	6H	21.66	22.41	22.15	22.89	23.37	21.66	22.41	22.15	22.89	23.37
	8H	21.91	22.59	22.42	23.09	23.57	21.91	22.59	22.42	23.09	23.57
	12H	22.11	22.71	22.62	23.20	23.76	22.11	22.71	22.62	23.20	23.76
12H	4H	20.99	21.80	21.46	22.27	22.74	20.99	21.80	21.46	22.27	22.74
	6H	21.71	22.38	22.22	22.89	23.37	21.71	22.38	22.22	22.89	23.37
	8H	22.02	22.62	22.53	23.11	23.66	22.02	22.62	22.53	23.11	23.66