

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: P866897

Luminaire Tested: PRLX-2001-L-940-48L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866897
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-940-48L-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 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

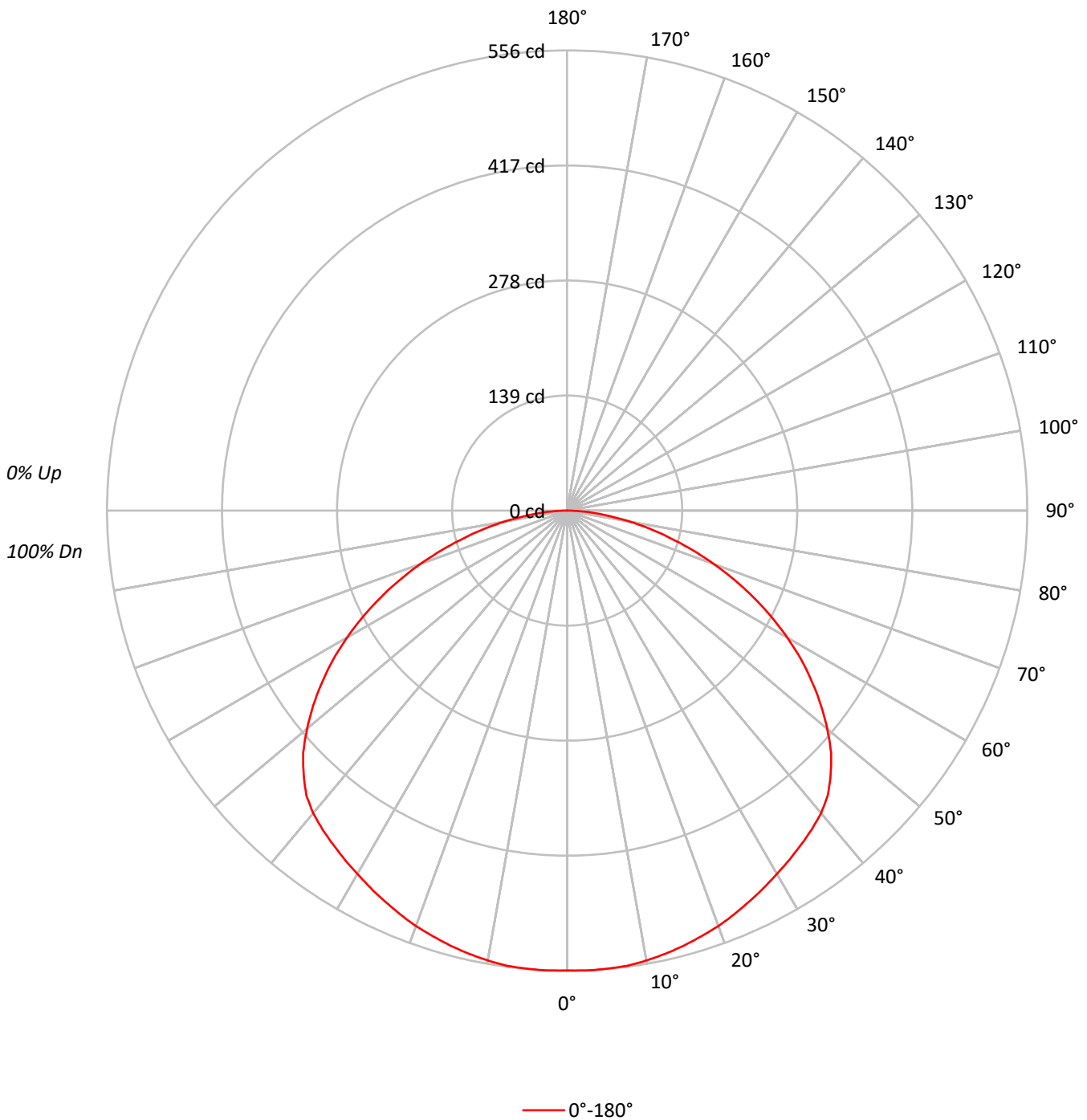
Lumens per Lamp: N/A
Luminaire Lumens: 1846.9 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	3038
5°	3050
10°	3065
15°	3081
20°	3108
25°	3143
30°	3200
35°	3289
40°	3406
45°	3482
50°	3490
55°	3446
60°	3360
65°	3220
70°	3010
75°	2735
80°	2424
85°	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 3501 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	2.9
10°-20°	153.9	8.3
20°-30°	240.8	13.0
30°-40°	309.1	16.7
40°-50°	346.5	18.8
50°-60°	322.6	17.5
60°-70°	245.9	13.3
70°-80°	138.1	7.5
80°-90°	37.0	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°	447.6	24.2
0°-40°	756.7	41.0
0°-60°	1425.8	77.2
0°-90°	1846.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	556	
5°	556	53
15°	544	154
25°	521	241
35°	493	309
45°	450	346
55°	362	323
65°	249	246
75°	130	138
85°	32	37
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	555.7
2.5°	556.2
5°	555.7
7.5°	554.8
10°	552.1
12.5°	548.4
15°	544.3
17.5°	539.3
20°	534.3
22.5°	527.9
25°	521.1
27.5°	514.2
30°	506.9
32.5°	500.1
35°	492.8
37.5°	485.5
40°	477.3
42.5°	466.4
45°	450.4
47.5°	432.6
50°	410.3
52.5°	386.6
55°	361.5
57.5°	335.5
60°	307.3
62.5°	278.5
65°	248.9
67.5°	218.8
70°	188.3
72.5°	159.1
75°	129.5
77.5°	102.6
80°	77.0
82.5°	52.4
85°	31.5
87.5°	13.7
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	16.70	18.39	17.07	18.70	19.02	16.70	18.39	17.07	18.70	19.02
	3H	18.49	20.01	18.86	20.34	20.70	18.49	20.01	18.86	20.34	20.70
	4H	19.13	20.57	19.53	20.92	21.29	19.13	20.57	19.53	20.92	21.29
	6H	19.60	20.94	20.01	21.30	21.69	19.60	20.94	20.01	21.30	21.69
	8H	19.74	21.02	20.16	21.41	21.81	19.74	21.02	20.16	21.41	21.81
	12H	19.83	21.06	20.26	21.44	21.87	19.83	21.06	20.26	21.44	21.87
4H	2H	17.34	18.79	17.74	19.13	19.51	17.34	18.79	17.74	19.13	19.51
	3H	19.34	20.55	19.75	20.95	21.35	19.34	20.55	19.75	20.95	21.35
	4H	20.11	21.21	20.54	21.62	22.05	20.11	21.21	20.54	21.62	22.05
	6H	20.70	21.66	21.15	22.10	22.56	20.70	21.66	21.15	22.10	22.56
	8H	20.89	21.79	21.35	22.23	22.69	20.89	21.79	21.35	22.23	22.69
	12H	21.02	21.83	21.50	22.31	22.78	21.02	21.83	21.50	22.31	22.78
8H	4H	20.42	21.32	20.88	21.76	22.22	20.42	21.32	20.88	21.76	22.22
	6H	21.12	21.87	21.62	22.36	22.83	21.12	21.87	21.62	22.36	22.83
	8H	21.38	22.05	21.89	22.56	23.04	21.38	22.05	21.89	22.56	23.04
	12H	21.58	22.17	22.08	22.66	23.22	21.58	22.17	22.08	22.66	23.22
12H	4H	20.45	21.26	20.93	21.74	22.20	20.45	21.26	20.93	21.74	22.20
	6H	21.18	21.85	21.68	22.36	22.84	21.18	21.85	21.68	22.36	22.84
	8H	21.49	22.08	21.99	22.57	23.13	21.49	22.08	21.99	22.57	23.13