

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: P866197

Luminaire Tested: PRLX-2002-M-927-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

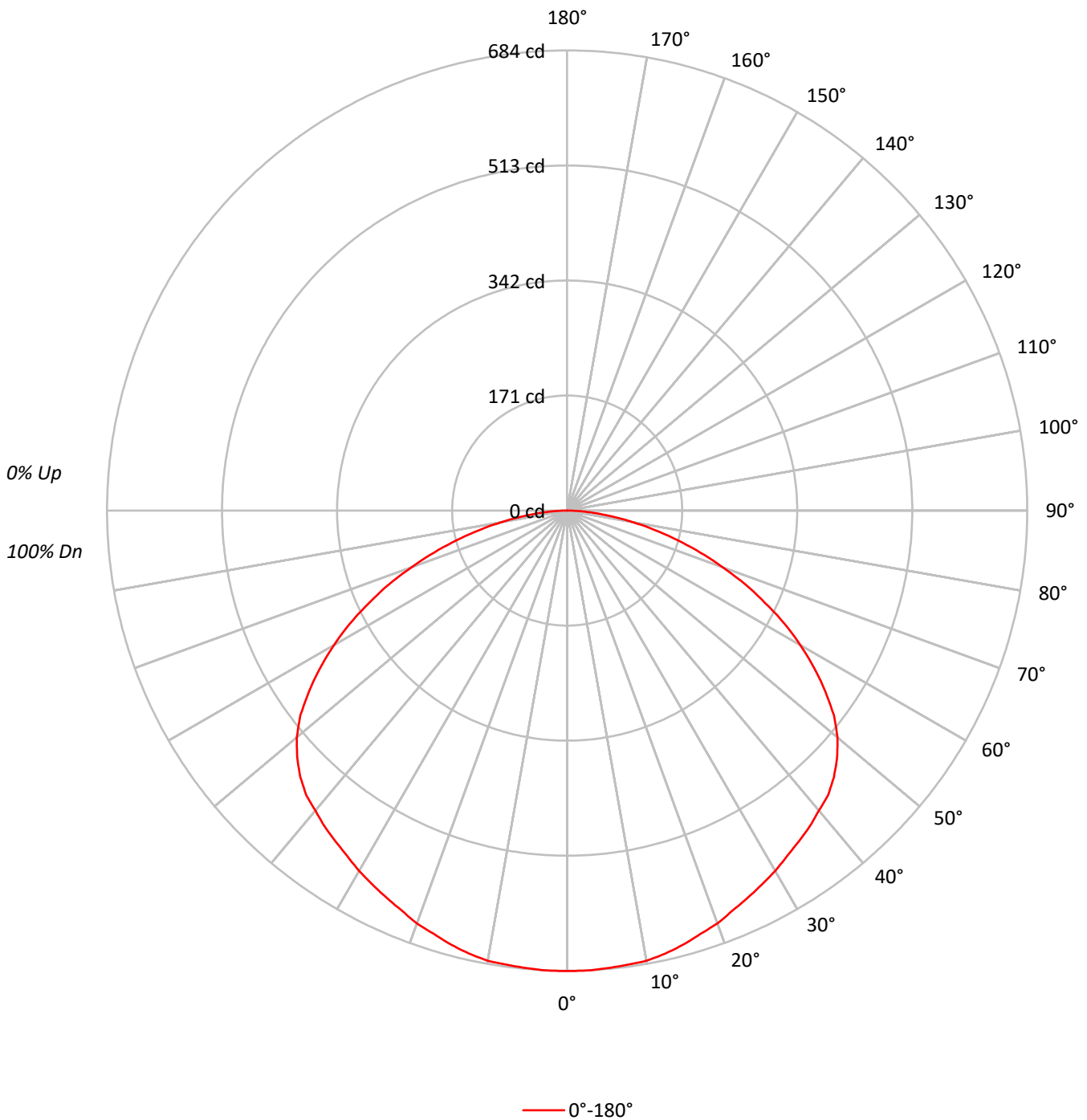
Lumens per Lamp: N/A
Luminaire Lumens: 2322.4 lumens
Efficiency: N/A
Efficacy: 39.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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

TEST NUMBER: P866197

CATALOG NUMBER: PRLX-2002-M-927-65L-G-U-S-X-X-BRSS-X

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5445
5°	5453
10°	5489
15°	5501
20°	5529
25°	5574
30°	5682
35°	5830
40°	6046
45°	6309
50°	6492
55°	6497
60°	6377
65°	6116
70°	5715
75°	5223
80°	4536
85°	3615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6530 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	2.8
10°-20°	188.7	8.1
20°-30°	293.5	12.6
30°-40°	376.7	16.2
40°-50°	431.6	18.6
50°-60°	417.5	18.0
60°-70°	321.5	13.8
70°-80°	180.2	7.8
80°-90°	47.5	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°	547.3	23.6
0°-40°	924.0	39.8
0°-60°	1773.1	76.3
0°-90°	2322.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	684	
5°	683	65
15°	668	189
25°	635	294
35°	600	377
45°	561	432
55°	468	417
65°	325	322
75°	170	180
85°	40	48
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	684.4
2.5°	684.4
5°	682.8
7.5°	681.1
10°	679.5
12.5°	674.5
15°	667.9
17.5°	659.7
20°	653.1
22.5°	643.2
25°	635.0
27.5°	626.7
30°	618.5
32.5°	608.6
35°	600.3
37.5°	592.1
40°	582.2
42.5°	573.9
45°	560.7
47.5°	544.2
50°	524.5
52.5°	499.7
55°	468.4
57.5°	435.4
60°	400.8
62.5°	364.5
65°	324.9
67.5°	287.0
70°	245.7
72.5°	207.8
75°	169.9
77.5°	133.6
80°	99.0
82.5°	67.6
85°	39.6
87.5°	18.1
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	19.00	20.70	19.37	21.02	21.33	19.00	20.70	19.37	21.02	21.33
	3H	20.81	22.36	21.19	22.68	23.04	20.81	22.36	21.19	22.68	23.04
	4H	21.47	22.92	21.86	23.27	23.64	21.47	22.92	21.86	23.27	23.64
	6H	21.93	23.28	22.34	23.64	24.03	21.93	23.28	22.34	23.64	24.03
	8H	22.07	23.36	22.49	23.75	24.15	22.07	23.36	22.49	23.75	24.15
	12H	22.16	23.40	22.58	23.78	24.21	22.16	23.40	22.58	23.78	24.21
4H	2H	19.66	21.11	20.05	21.46	21.83	19.66	21.11	20.05	21.46	21.83
	3H	21.67	22.90	22.08	23.30	23.69	21.67	22.90	22.08	23.30	23.69
	4H	22.45	23.56	22.88	23.97	24.41	22.45	23.56	22.88	23.97	24.41
	6H	23.04	24.01	23.49	24.45	24.90	23.04	24.01	23.49	24.45	24.90
	8H	23.22	24.13	23.68	24.57	25.04	23.22	24.13	23.68	24.57	25.04
	12H	23.35	24.17	23.83	24.64	25.11	23.35	24.17	23.83	24.64	25.11
8H	4H	22.76	23.67	23.22	24.11	24.58	22.76	23.67	23.22	24.11	24.58
	6H	23.46	24.22	23.95	24.70	25.18	23.46	24.22	23.95	24.70	25.18
	8H	23.71	24.39	24.21	24.89	25.38	23.71	24.39	24.21	24.89	25.38
	12H	23.90	24.50	24.40	24.99	25.55	23.90	24.50	24.40	24.99	25.55
12H	4H	22.80	23.62	23.27	24.09	24.56	22.80	23.62	23.27	24.09	24.56
	6H	23.51	24.19	24.02	24.70	25.18	23.51	24.19	24.02	24.70	25.18
	8H	23.81	24.42	24.32	24.91	25.46	23.81	24.42	24.32	24.91	25.46