

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: P867289

Luminaire Tested: PRLX-2004-L-930-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-930-67L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

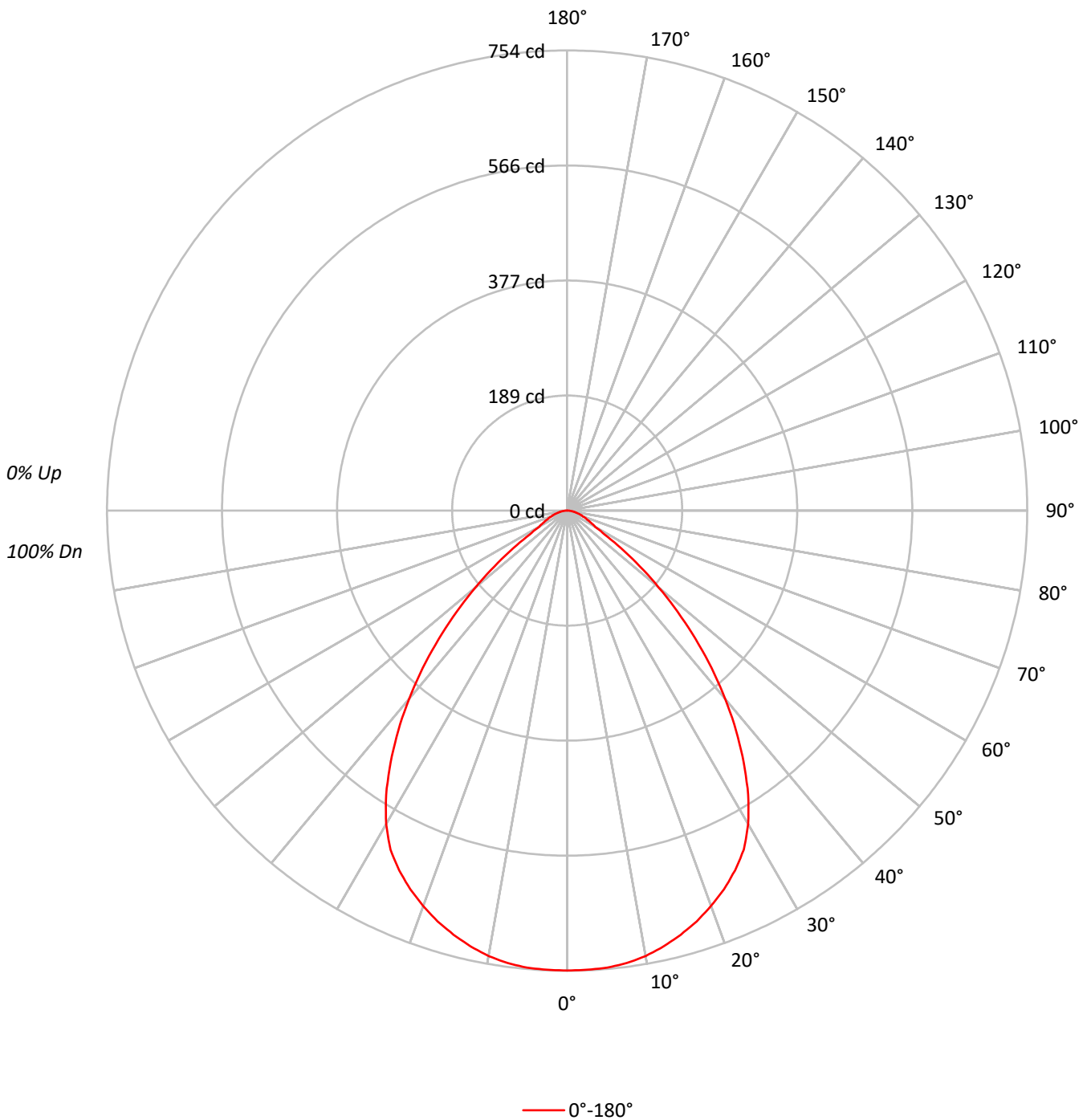
Lumens per Lamp: N/A
Luminaire Lumens: 1279.7 lumens
Efficiency: N/A
Efficacy: 25.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (A_{in}): 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	101	102	100	97		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	70	67		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3718
5°	3724
10°	3713
15°	3675
20°	3619
25°	3542
30°	3380
35°	3039
40°	2597
45°	2075
50°	1506
55°	925
60°	522
65°	445
70°	394
75°	358
80°	324
85°	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	5.6
10°-20°	202.8	15.8
20°-30°	298.5	23.3
30°-40°	313.3	24.5
40°-50°	228.7	17.9
50°-60°	100.8	7.9
60°-70°	38.4	3.0
70°-80°	19.9	1.6
80°-90°	5.9	0.5
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°	572.7	44.8
0°-40°	886.0	69.2
0°-60°	1215.4	95.0
0°-90°	1279.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	754	
5°	752	71
15°	719	203
25°	651	298
35°	504	313
45°	297	229
55°	108	101
65°	38	38
75°	19	20
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	753.6
2.5°	753.0
5°	751.9
7.5°	747.9
10°	741.1
12.5°	731.4
15°	719.4
17.5°	705.8
20°	689.3
22.5°	671.7
25°	650.6
27.5°	626.7
30°	593.2
32.5°	552.2
35°	504.5
37.5°	455.0
40°	403.2
42.5°	350.3
45°	297.4
47.5°	245.1
50°	196.2
52.5°	150.1
55°	107.5
57.5°	72.8
60°	52.9
62.5°	44.9
65°	38.1
67.5°	32.4
70°	27.3
72.5°	22.7
75°	18.8
77.5°	14.8
80°	11.4
82.5°	8.5
85°	5.1
87.5°	2.3
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	7.39	8.70	7.76	9.01	9.32	7.39	8.70	7.76	9.01	9.32
	3H	8.28	9.43	8.66	9.76	10.12	8.28	9.43	8.66	9.76	10.12
	4H	8.63	9.70	9.03	10.05	10.43	8.63	9.70	9.03	10.05	10.43
	6H	8.89	9.87	9.31	10.24	10.64	8.89	9.87	9.31	10.24	10.64
	8H	8.99	9.91	9.42	10.31	10.71	8.99	9.91	9.42	10.31	10.71
	12H	9.04	9.93	9.47	10.31	10.74	9.04	9.93	9.47	10.31	10.74
4H	2H	7.62	8.69	8.02	9.04	9.42	7.62	8.69	8.02	9.04	9.42
	3H	8.72	9.59	9.13	10.00	10.40	8.72	9.59	9.13	10.00	10.40
	4H	9.19	9.97	9.63	10.39	10.83	9.19	9.97	9.63	10.39	10.83
	6H	9.58	10.25	10.04	10.69	11.16	9.58	10.25	10.04	10.69	11.16
	8H	9.71	10.34	10.18	10.79	11.26	9.71	10.34	10.18	10.79	11.26
	12H	9.81	10.36	10.30	10.84	11.32	9.81	10.36	10.30	10.84	11.32
8H	4H	9.33	9.95	9.80	10.40	10.87	9.33	9.95	9.80	10.40	10.87
	6H	9.81	10.33	10.32	10.82	11.30	9.81	10.33	10.32	10.82	11.30
	8H	10.02	10.48	10.54	11.00	11.49	10.02	10.48	10.54	11.00	11.49
	12H	10.18	10.59	10.70	11.09	11.66	10.18	10.59	10.70	11.09	11.66
12H	4H	9.32	9.87	9.81	10.36	10.83	9.32	9.87	9.81	10.36	10.83
	6H	9.83	10.29	10.35	10.81	11.30	9.83	10.29	10.35	10.81	11.30
	8H	10.09	10.49	10.60	10.99	11.56	10.09	10.49	10.60	10.99	11.56