

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: P867297

Luminaire Tested: PRLX-2004-L-930-83L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867297
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-930-83L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

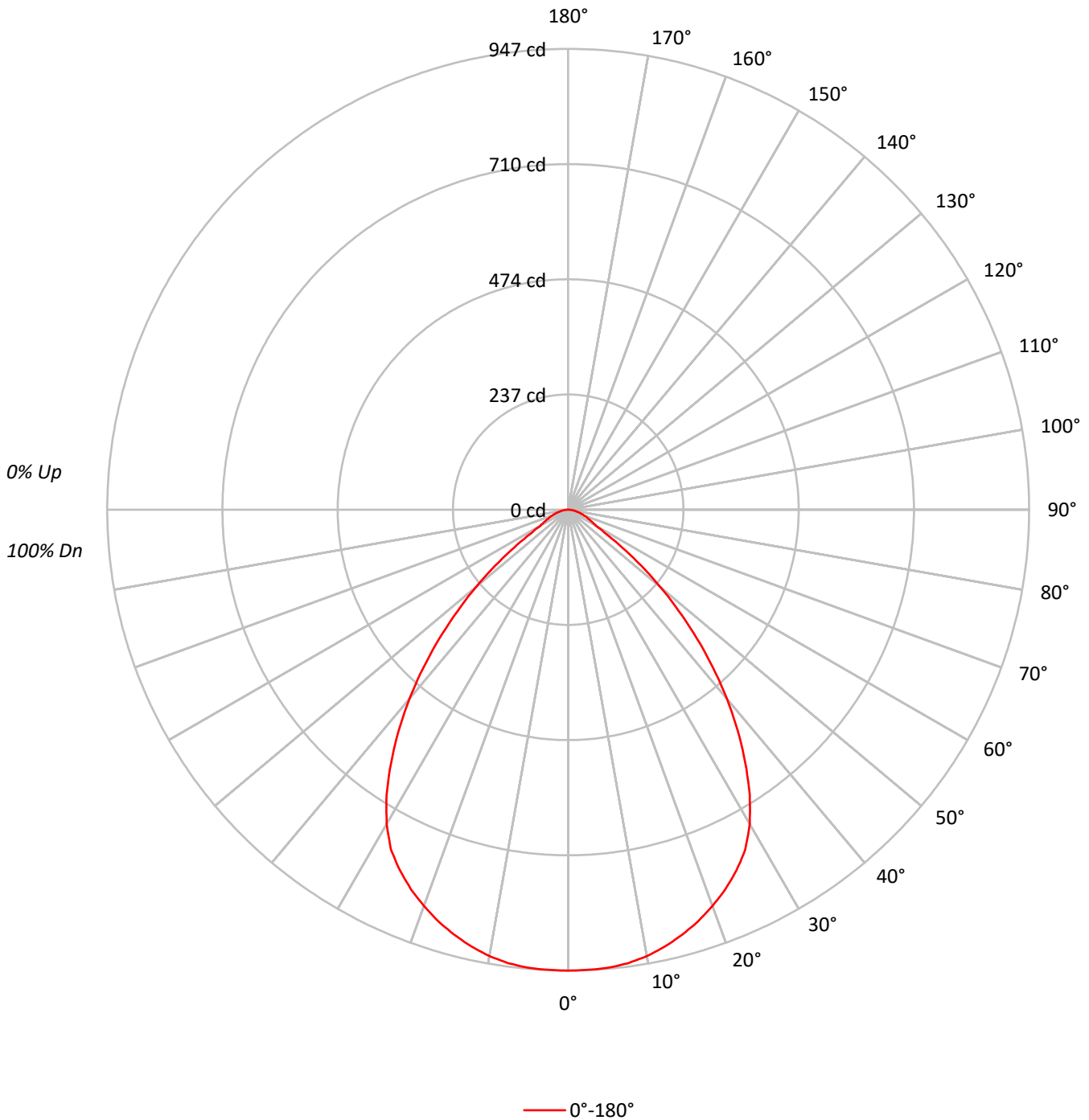
Lumens per Lamp: N/A
Luminaire Lumens: 1608.5 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: 0.5 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°	4673
5°	4680
10°	4666
15°	4619
20°	4549
25°	4452
30°	4248
35°	3819
40°	3264
45°	2609
50°	1893
55°	1162
60°	656
65°	559
70°	495
75°	450
80°	406
85°	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	5.6
10°-20°	254.9	15.8
20°-30°	375.2	23.3
30°-40°	393.8	24.5
40°-50°	287.5	17.9
50°-60°	126.7	7.9
60°-70°	48.3	3.0
70°-80°	25.1	1.6
80°-90°	7.4	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°	719.8	44.7
0°-40°	1113.6	69.2
0°-60°	1527.7	95.0
0°-90°	1608.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1608.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	947	
5°	945	90
15°	904	255
25°	818	375
35°	634	394
45°	374	287
55°	135	127
65°	48	48
75°	24	25
85°	6	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	947.2
2.5°	946.5
5°	945.0
7.5°	940.0
10°	931.4
12.5°	919.3
15°	904.3
17.5°	887.1
20°	866.4
22.5°	844.2
25°	817.8
27.5°	787.8
30°	745.6
32.5°	694.1
35°	634.1
37.5°	571.9
40°	506.8
42.5°	440.3
45°	373.9
47.5°	308.1
50°	246.6
52.5°	188.7
55°	135.1
57.5°	91.5
60°	66.5
62.5°	56.5
65°	47.9
67.5°	40.7
70°	34.3
72.5°	28.6
75°	23.6
77.5°	18.6
80°	14.3
82.5°	10.7
85°	6.4
87.5°	2.9
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	8.19	9.49	8.55	9.80	10.12	8.19	9.49	8.55	9.80	10.12
	3H	9.07	10.22	9.45	10.55	10.91	9.07	10.22	9.45	10.55	10.91
	4H	9.42	10.49	9.83	10.84	11.23	9.42	10.49	9.83	10.84	11.23
	6H	9.69	10.67	10.10	11.04	11.43	9.69	10.67	10.10	11.04	11.43
	8H	9.78	10.71	10.21	11.10	11.50	9.78	10.71	10.21	11.10	11.50
	12H	9.83	10.72	10.27	11.11	11.54	9.83	10.72	10.27	11.11	11.54
4H	2H	8.42	9.48	8.82	9.84	10.22	8.42	9.48	8.82	9.84	10.22
	3H	9.51	10.38	9.93	10.79	11.19	9.51	10.38	9.93	10.79	11.19
	4H	9.99	10.76	10.42	11.18	11.63	9.99	10.76	10.42	11.18	11.63
	6H	10.37	11.04	10.83	11.49	11.95	10.37	11.04	10.83	11.49	11.95
	8H	10.51	11.13	10.98	11.58	12.05	10.51	11.13	10.98	11.58	12.05
	12H	10.60	11.15	11.09	11.64	12.11	10.60	11.15	11.09	11.64	12.11
8H	4H	10.12	10.74	10.59	11.19	11.66	10.12	10.74	10.59	11.19	11.66
	6H	10.61	11.12	11.11	11.62	12.10	10.61	11.12	11.11	11.62	12.10
	8H	10.81	11.27	11.33	11.79	12.28	10.81	11.27	11.33	11.79	12.28
	12H	10.98	11.39	11.49	11.88	12.45	10.98	11.39	11.49	11.88	12.45
12H	4H	10.11	10.66	10.60	11.15	11.62	10.11	10.66	10.60	11.15	11.62
	6H	10.62	11.08	11.14	11.60	12.09	10.62	11.08	11.14	11.60	12.09
	8H	10.88	11.29	11.39	11.78	12.35	10.88	11.29	11.39	11.78	12.35