

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: P867377

Luminaire Tested: PRLX-2004-L-940-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867377
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-940-117L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

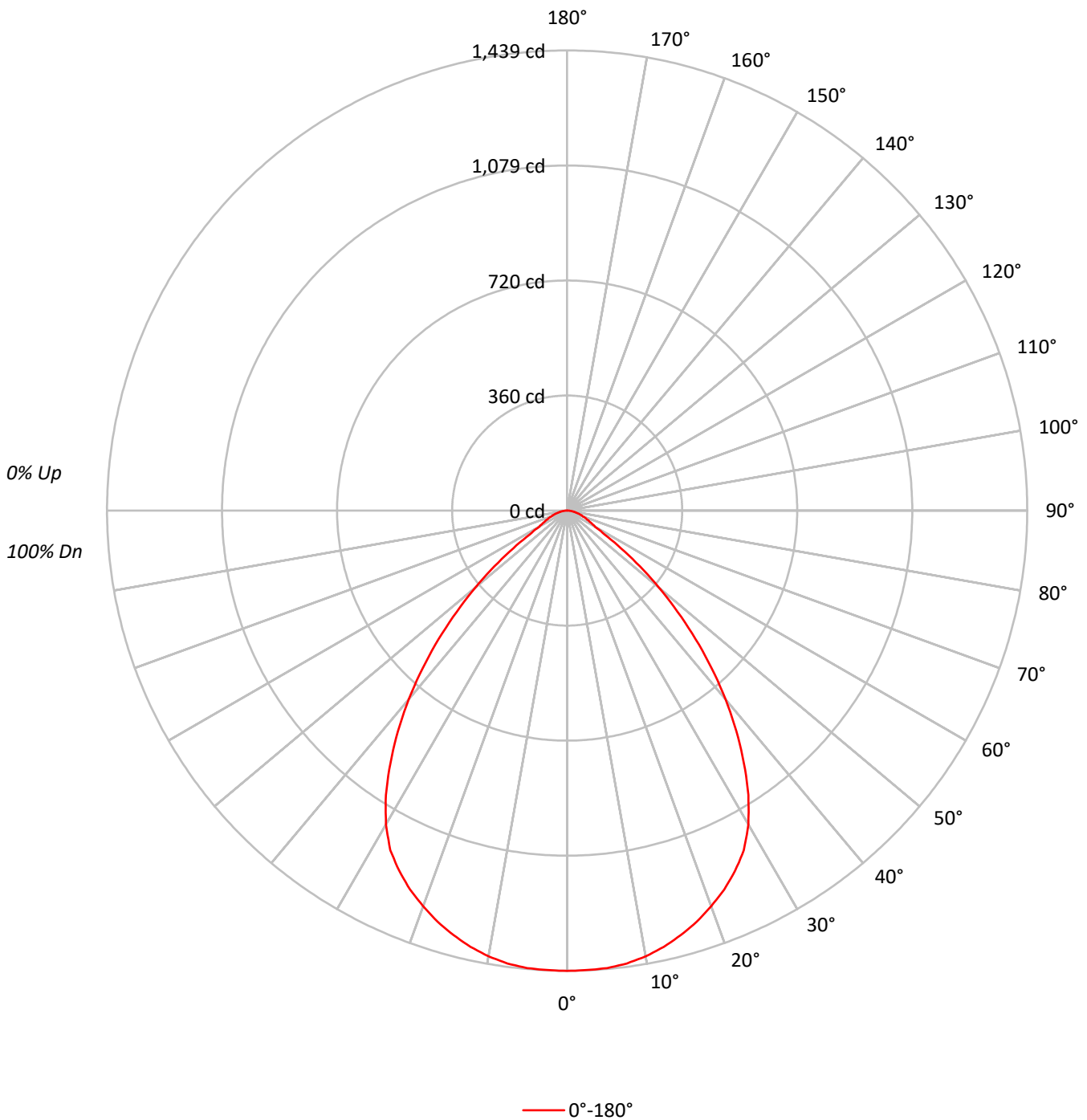
Lumens per Lamp: N/A
Luminaire Lumens: 2444.3 lumens
Efficiency: N/A
Efficacy: 25.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	7102
5°	7113
10°	7092
15°	7019
20°	6913
25°	6765
30°	6455
35°	5804
40°	4961
45°	3964
50°	2877
55°	1766
60°	997
65°	850
70°	752
75°	682
80°	617
85°	555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	5.6
10°-20°	387.3	15.8
20°-30°	570.1	23.3
30°-40°	598.4	24.5
40°-50°	436.8	17.9
50°-60°	192.5	7.9
60°-70°	73.4	3.0
70°-80°	38.1	1.6
80°-90°	11.2	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°	1093.8	44.8
0°-40°	1692.2	69.2
0°-60°	2321.6	95.0
0°-90°	2444.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1439	
5°	1436	136
15°	1374	387
25°	1243	570
35°	964	598
45°	568	437
55°	205	192
65°	73	73
75°	36	38
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1439.4
2.5°	1438.3
5°	1436.1
7.5°	1428.5
10°	1415.5
12.5°	1397.0
15°	1374.2
17.5°	1348.1
20°	1316.6
22.5°	1282.9
25°	1242.7
27.5°	1197.1
30°	1133.0
32.5°	1054.8
35°	963.6
37.5°	869.0
40°	770.2
42.5°	669.2
45°	568.1
47.5°	468.2
50°	374.8
52.5°	286.8
55°	205.3
57.5°	139.0
60°	101.0
62.5°	85.8
65°	72.8
67.5°	61.9
70°	52.1
72.5°	43.5
75°	35.8
77.5°	28.2
80°	21.7
82.5°	16.3
85°	9.8
87.5°	4.3
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	9.64	10.94	10.01	11.26	11.57	9.64	10.94	10.01	11.26	11.57
	3H	10.52	11.67	10.90	12.00	12.37	10.52	11.67	10.90	12.00	12.37
	4H	10.87	11.94	11.28	12.30	12.68	10.87	11.94	11.28	12.30	12.68
	6H	11.14	12.12	11.55	12.49	12.88	11.14	12.12	11.55	12.49	12.88
	8H	11.23	12.16	11.66	12.55	12.96	11.23	12.16	11.66	12.55	12.96
	12H	11.29	12.18	11.72	12.56	12.99	11.29	12.18	11.72	12.56	12.99
4H	2H	9.87	10.94	10.27	11.29	11.67	9.87	10.94	10.27	11.29	11.67
	3H	10.97	11.84	11.38	12.24	12.65	10.97	11.84	11.38	12.24	12.65
	4H	11.44	12.21	11.87	12.63	13.08	11.44	12.21	11.87	12.63	13.08
	6H	11.82	12.49	12.28	12.94	13.40	11.82	12.49	12.28	12.94	13.40
	8H	11.96	12.58	12.43	13.03	13.50	11.96	12.58	12.43	13.03	13.50
	12H	12.05	12.61	12.54	13.09	13.56	12.05	12.61	12.54	13.09	13.56
8H	4H	11.57	12.20	12.04	12.64	13.12	11.57	12.20	12.04	12.64	13.12
	6H	12.06	12.57	12.56	13.07	13.55	12.06	12.57	12.56	13.07	13.55
	8H	12.26	12.72	12.79	13.24	13.73	12.26	12.72	12.79	13.24	13.73
	12H	12.43	12.84	12.94	13.33	13.91	12.43	12.84	12.94	13.33	13.91
12H	4H	11.56	12.12	12.05	12.60	13.07	11.56	12.12	12.05	12.60	13.07
	6H	12.07	12.53	12.59	13.05	13.54	12.07	12.53	12.59	13.05	13.54
	8H	12.33	12.74	12.84	13.23	13.81	12.33	12.74	12.84	13.23	13.81