

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: P867365

Luminaire Tested: PRLX-2004-L-940-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-100L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

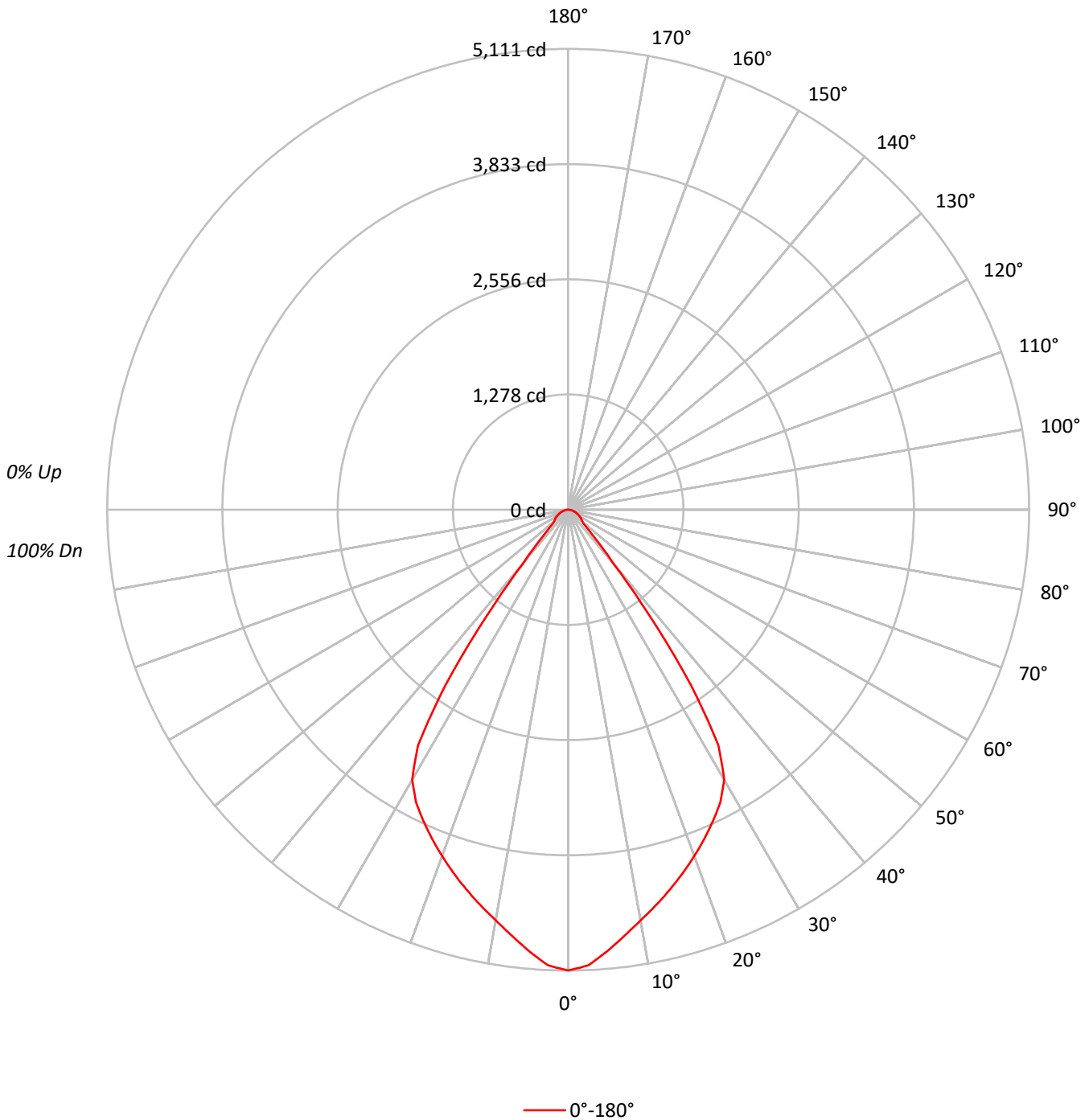
Lumens per Lamp: N/A
Luminaire Lumens: 5473.2 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	113	110	107	104	110	107	105	103	103	101	99		100	98	97		96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74		81	77	74		79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68		76	71	68		74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	58		67	62	58		66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47		56	51	47		55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25215
5°	24359
10°	23170
15°	22271
20°	21460
25°	20703
30°	19703
35°	14292
40°	5078
45°	2236
50°	1547
55°	1526
60°	1439
65°	1355
70°	1272
75°	1205
80°	1134
85°	1053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.2	8.4
10°-20°	1227.9	22.4
20°-30°	1748.1	31.9
30°-40°	1386.1	25.3
40°-50°	290.5	5.3
50°-60°	157.4	2.9
60°-70°	115.3	2.1
70°-80°	66.9	1.2
80°-90°	20.9	0.4
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°	3436.2	62.8
0°-40°	4822.2	88.1
0°-60°	5270.1	96.3
0°-90°	5473.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5473.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5111	
5°	4918	460
15°	4360	1228
25°	3803	1748
35°	2373	1386
45°	320	290
55°	177	157
65°	116	115
75°	63	67
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5110.6
2.5°	5059.6
5°	4918.4
7.5°	4767.0
10°	4624.9
12.5°	4493.0
15°	4360.2
17.5°	4226.5
20°	4087.2
22.5°	3947.9
25°	3803.0
27.5°	3654.4
30°	3458.5
32.5°	3098.1
35°	2372.8
37.5°	1458.1
40°	788.5
42.5°	482.0
45°	320.4
47.5°	233.1
50°	201.5
52.5°	191.3
55°	177.4
57.5°	161.6
60°	145.8
62.5°	130.9
65°	116.1
67.5°	102.2
70°	88.2
72.5°	75.2
75°	63.2
77.5°	51.1
80°	39.9
82.5°	28.8
85°	18.6
87.5°	9.3
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	8.29	9.35	8.65	9.66	9.97	8.29	9.35	8.65	9.66	9.97
	3H	9.92	10.85	10.30	11.19	11.55	9.92	10.85	10.30	11.19	11.55
	4H	10.55	11.41	10.95	11.77	12.15	10.55	11.41	10.95	11.77	12.15
	6H	11.02	11.82	11.44	12.19	12.59	11.02	11.82	11.44	12.19	12.59
	8H	11.19	11.93	11.62	12.33	12.73	11.19	11.93	11.62	12.33	12.73
	12H	11.29	12.01	11.73	12.39	12.82	11.29	12.01	11.73	12.39	12.82
4H	2H	8.78	9.65	9.19	10.00	10.39	8.78	9.65	9.19	10.00	10.39
	3H	10.62	11.33	11.03	11.74	12.14	10.62	11.33	11.03	11.74	12.14
	4H	11.37	12.01	11.81	12.43	12.88	11.37	12.01	11.81	12.43	12.88
	6H	11.98	12.53	12.45	12.98	13.45	11.98	12.53	12.45	12.98	13.45
	8H	12.19	12.70	12.66	13.15	13.62	12.19	12.70	12.66	13.15	13.62
	12H	12.34	12.78	12.83	13.27	13.75	12.34	12.78	12.83	13.27	13.75
8H	4H	11.61	12.11	12.08	12.56	13.04	11.61	12.11	12.08	12.56	13.04
	6H	12.36	12.76	12.86	13.26	13.75	12.36	12.76	12.86	13.26	13.75
	8H	12.65	13.01	13.18	13.53	14.03	12.65	13.01	13.18	13.53	14.03
	12H	12.90	13.21	13.42	13.71	14.28	12.90	13.21	13.42	13.71	14.28
12H	4H	11.61	12.05	12.10	12.54	13.01	11.61	12.05	12.10	12.54	13.01
	6H	12.40	12.76	12.93	13.28	13.77	12.40	12.76	12.93	13.28	13.77
	8H	12.75	13.06	13.27	13.56	14.14	12.75	13.06	13.27	13.56	14.14