

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: P867057

Luminaire Tested: PRLX-2002-L-935-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-117L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

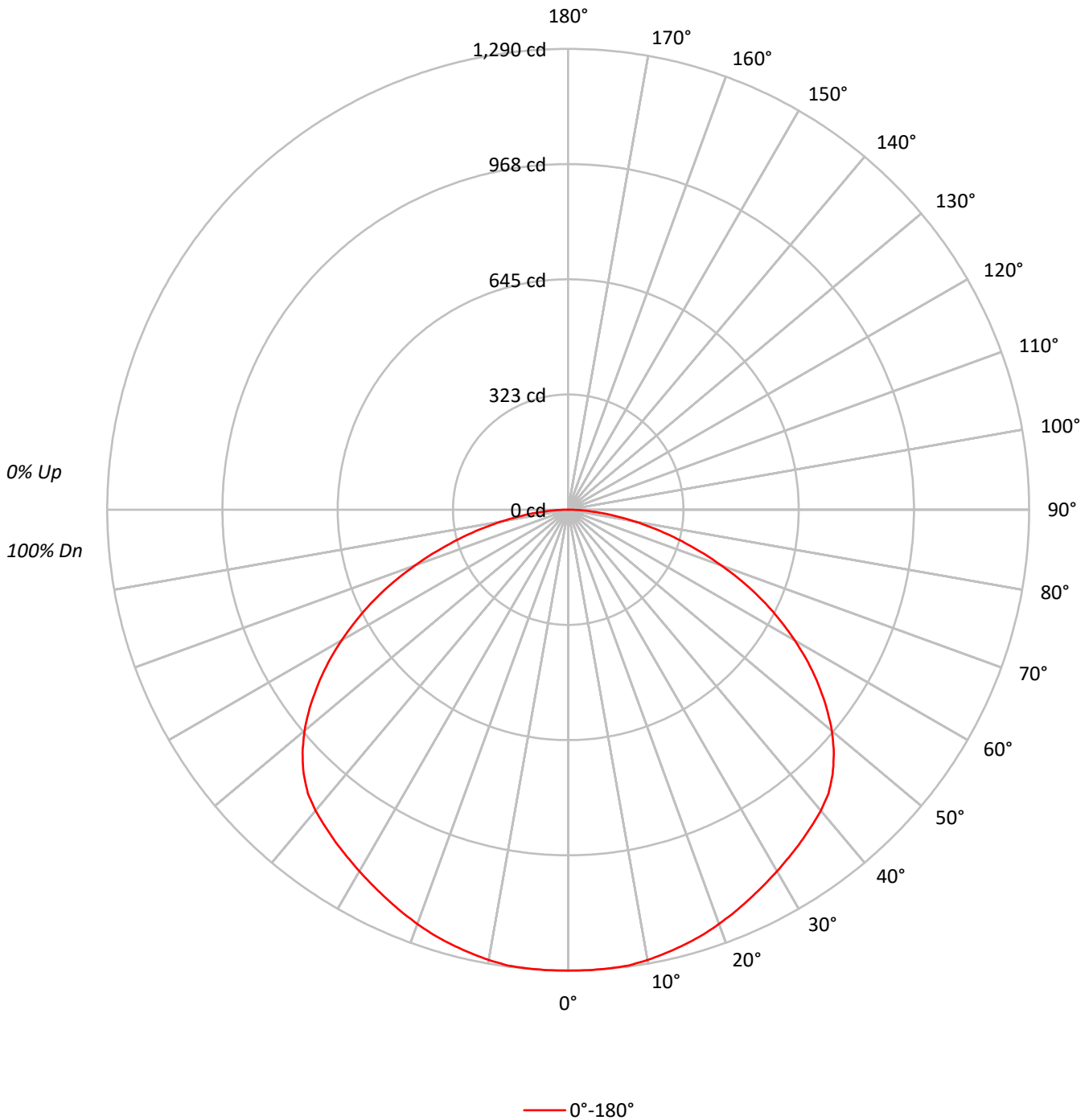
Lumens per Lamp: N/A
Luminaire Lumens: 4333.8 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	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	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6366
5°	6385
10°	6412
15°	6436
20°	6480
25°	6542
30°	6657
35°	6837
40°	7084
45°	7304
50°	7395
55°	7357
60°	7228
65°	6998
70°	6575
75°	6030
80°	5381
85°	4416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7395 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	2.8
10°-20°	356.3	8.2
20°-30°	555.3	12.8
30°-40°	712.0	16.4
40°-50°	804.9	18.6
50°-60°	763.0	17.6
60°-70°	591.1	13.6
70°-80°	336.1	7.8
80°-90°	92.3	2.1
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°	1034.4	23.9
0°-40°	1746.4	40.3
0°-60°	3314.3	76.5
0°-90°	4333.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1290	
5°	1289	123
15°	1260	356
25°	1202	555
35°	1135	712
45°	1047	805
55°	855	763
65°	599	591
75°	316	336
85°	78	92
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1290.3
2.5°	1290.3
5°	1289.2
7.5°	1287.2
10°	1279.9
12.5°	1270.5
15°	1260.1
17.5°	1248.7
20°	1234.1
22.5°	1218.5
25°	1201.8
27.5°	1185.2
30°	1168.5
32.5°	1151.9
35°	1135.2
37.5°	1117.6
40°	1099.9
42.5°	1078.0
45°	1046.8
47.5°	1008.3
50°	963.5
52.5°	911.5
55°	855.3
57.5°	796.0
60°	732.5
62.5°	667.0
65°	599.4
67.5°	528.6
70°	455.8
72.5°	385.0
75°	316.3
77.5°	250.8
80°	189.4
82.5°	131.1
85°	78.0
87.5°	35.4
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	19.38	21.07	19.74	21.39	21.70	19.38	21.07	19.74	21.39	21.70
	3H	21.21	22.75	21.59	23.08	23.44	21.21	22.75	21.59	23.08	23.44
	4H	21.88	23.33	22.28	23.68	24.05	21.88	23.33	22.28	23.68	24.05
	6H	22.37	23.72	22.78	24.08	24.47	22.37	23.72	22.78	24.08	24.47
	8H	22.52	23.81	22.95	24.20	24.60	22.52	23.81	22.95	24.20	24.60
	12H	22.63	23.86	23.05	24.24	24.67	22.63	23.86	23.05	24.24	24.67
4H	2H	20.04	21.49	20.44	21.84	22.21	20.04	21.49	20.44	21.84	22.21
	3H	22.09	23.31	22.50	23.70	24.10	22.09	23.31	22.50	23.70	24.10
	4H	22.88	23.99	23.31	24.40	24.83	22.88	23.99	23.31	24.40	24.83
	6H	23.49	24.46	23.95	24.90	25.36	23.49	24.46	23.95	24.90	25.36
	8H	23.70	24.60	24.15	25.05	25.51	23.70	24.60	24.15	25.05	25.51
	12H	23.84	24.66	24.32	25.13	25.60	23.84	24.66	24.32	25.13	25.60
8H	4H	23.20	24.11	23.66	24.55	25.01	23.20	24.11	23.66	24.55	25.01
	6H	23.93	24.69	24.42	25.18	25.65	23.93	24.69	24.42	25.18	25.65
	8H	24.20	24.88	24.71	25.39	25.87	24.20	24.88	24.71	25.39	25.87
	12H	24.42	25.02	24.92	25.51	26.07	24.42	25.02	24.92	25.51	26.07
12H	4H	23.24	24.05	23.71	24.53	25.00	23.24	24.05	23.71	24.53	25.00
	6H	23.99	24.67	24.50	25.18	25.66	23.99	24.67	24.50	25.18	25.66
	8H	24.32	24.92	24.82	25.41	25.97	24.32	24.92	24.82	25.41	25.97