

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: P866925

Luminaire Tested: PRLX-2002-L-927-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-927-117L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

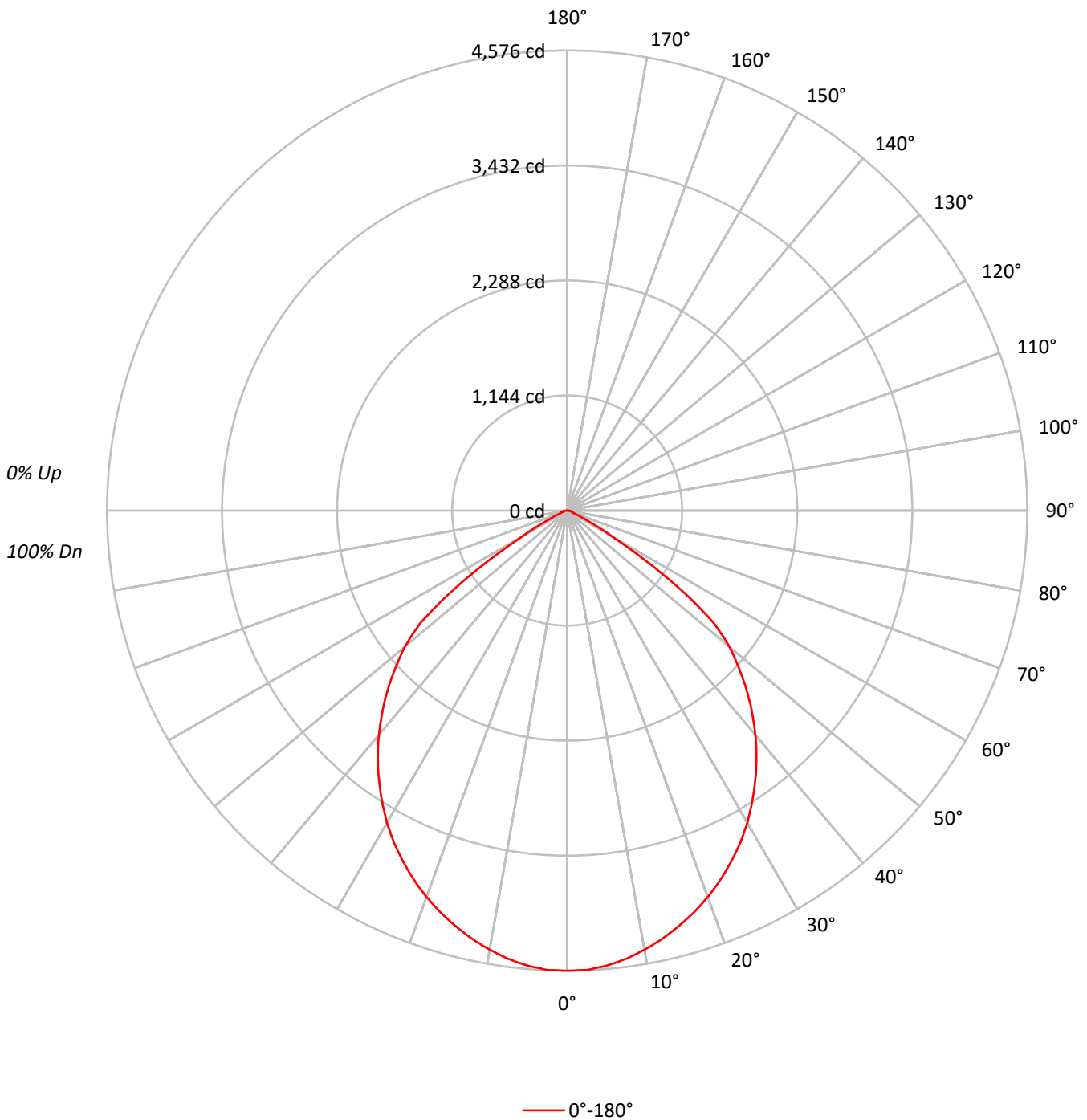
Lumens per Lamp: N/A
Luminaire Lumens: 8884.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70				70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62				62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55				55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22578
5°	22496
10°	22215
15°	21865
20°	21472
25°	20993
30°	20414
35°	19660
40°	18762
45°	17620
50°	16190
55°	12177
60°	5127
65°	1890
70°	868
75°	951
80°	1097
85°	1279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17620 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.1	4.8
10°-20°	1206.6	13.6
20°-30°	1774.9	20.0
30°-40°	2038.5	22.9
40°-50°	1941.9	21.9
50°-60°	1216.2	13.7
60°-70°	201.3	2.3
70°-80°	52.5	0.6
80°-90°	22.9	0.3
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°	3411.6	38.4
0°-40°	5450.1	61.3
0°-60°	8608.2	96.9
0°-90°	8884.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8884.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4576	
5°	4542	430
15°	4281	1207
25°	3856	1775
35°	3264	2038
45°	2525	1942
55°	1416	1216
65°	162	201
75°	50	53
85°	23	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4576.2
2.5°	4571.5
5°	4542.3
7.5°	4496.2
10°	4434.1
12.5°	4363.5
15°	4280.6
17.5°	4190.3
20°	4089.6
22.5°	3977.6
25°	3856.2
27.5°	3727.2
30°	3583.2
32.5°	3427.0
35°	3264.1
37.5°	3092.8
40°	2913.1
42.5°	2722.0
45°	2525.3
47.5°	2315.4
50°	2109.3
52.5°	1842.0
55°	1415.6
57.5°	914.9
60°	519.6
62.5°	294.6
65°	161.9
67.5°	76.2
70°	60.2
72.5°	55.5
75°	49.9
77.5°	44.2
80°	38.6
82.5°	31.1
85°	22.6
87.5°	11.3
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	18.05	19.44	18.41	19.76	20.07	18.05	19.44	18.41	19.76	20.07
	3H	17.96	19.19	18.34	19.52	19.88	17.96	19.19	18.34	19.52	19.88
	4H	17.92	19.06	18.32	19.41	19.79	17.92	19.06	18.32	19.41	19.79
	6H	17.88	18.92	18.30	19.29	19.69	17.88	18.92	18.30	19.29	19.69
	8H	17.86	18.85	18.29	19.24	19.64	17.86	18.85	18.29	19.24	19.64
	12H	17.84	18.78	18.27	19.16	19.59	17.84	18.78	18.27	19.16	19.59
4H	2H	17.92	19.06	18.32	19.41	19.79	17.92	19.06	18.32	19.41	19.79
	3H	17.85	18.77	18.26	19.17	19.57	17.85	18.77	18.26	19.17	19.57
	4H	17.81	18.62	18.24	19.04	19.49	17.81	18.62	18.24	19.04	19.49
	6H	17.79	18.49	18.25	18.94	19.40	17.79	18.49	18.25	18.94	19.40
	8H	17.77	18.42	18.24	18.87	19.34	17.77	18.42	18.24	18.87	19.34
	12H	17.76	18.34	18.24	18.82	19.29	17.76	18.34	18.24	18.82	19.29
8H	4H	17.70	18.36	18.17	18.80	19.27	17.70	18.36	18.17	18.80	19.27
	6H	17.68	18.22	18.18	18.72	19.20	17.68	18.22	18.18	18.72	19.20
	8H	17.67	18.16	18.19	18.67	19.16	17.67	18.16	18.19	18.67	19.16
	12H	17.67	18.12	18.19	18.61	19.18	17.67	18.12	18.19	18.61	19.18
12H	4H	17.66	18.24	18.15	18.72	19.20	17.66	18.24	18.15	18.72	19.20
	6H	17.63	18.12	18.15	18.63	19.12	17.63	18.12	18.15	18.63	19.12
	8H	17.64	18.08	18.15	18.58	19.15	17.64	18.08	18.15	18.58	19.15