

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: P866917

Luminaire Tested: PRLX-2002-L-927-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866917
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-927-100L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

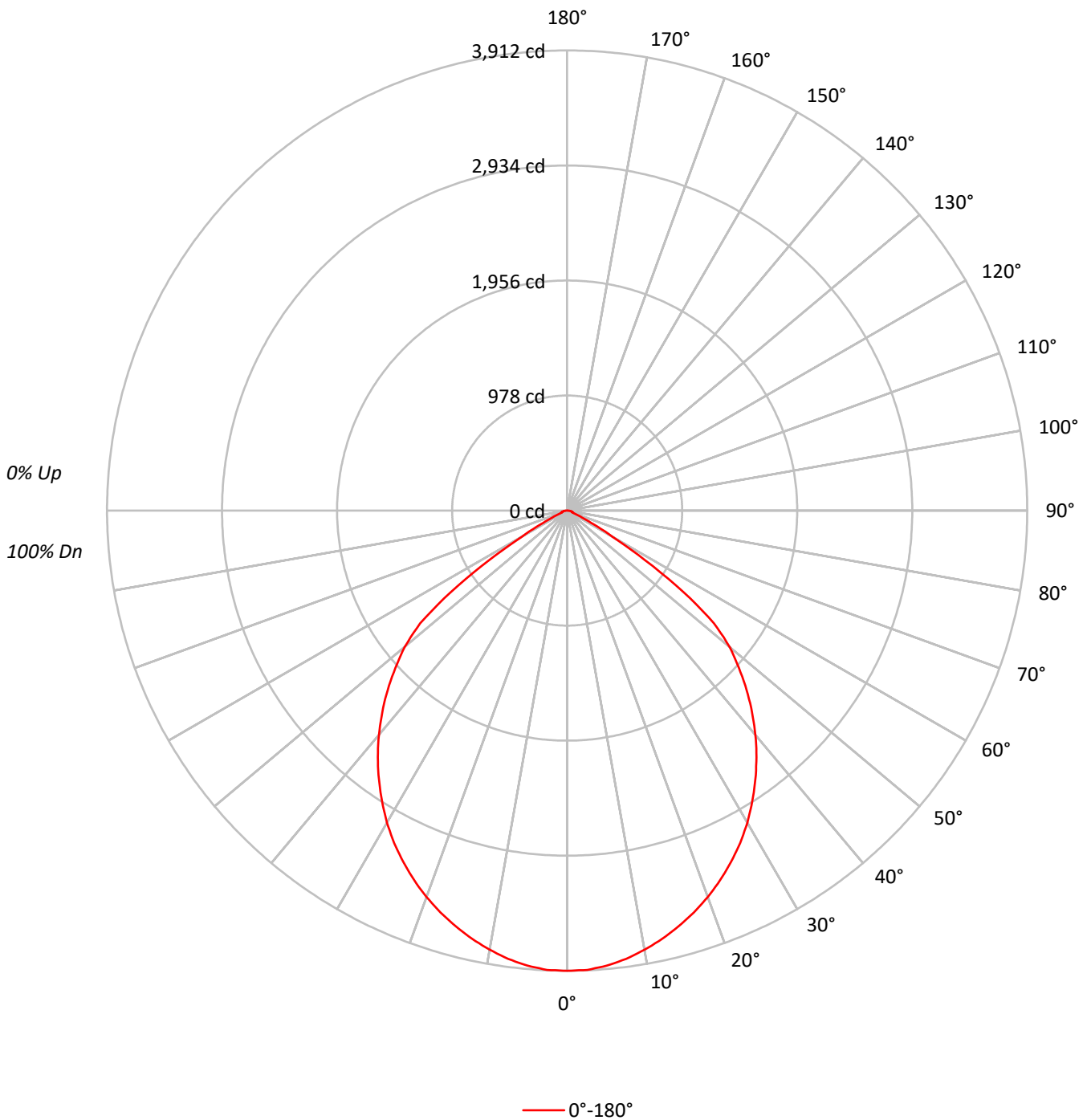
Lumens per Lamp: N/A
Luminaire Lumens: 7595.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P866917

CATALOG NUMBER: PRLX-2002-L-927-100L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866917

CATALOG NUMBER: PRLX-2002-L-927-100L-L-X-X-BRSS-X

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19302
5°	19233
10°	18991
15°	18693
20°	18357
25°	17947
30°	17452
35°	16807
40°	16040
45°	15064
50°	13841
55°	10410
60°	4383
65°	1616
70°	743
75°	812
80°	938
85°	1093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15064 cd/sqm

TEST NUMBER: P866917

CATALOG NUMBER: PRLX-2002-L-927-100L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.7	4.8
10°-20°	1031.5	13.6
20°-30°	1517.4	20.0
30°-40°	1742.7	22.9
40°-50°	1660.1	21.9
50°-60°	1039.7	13.7
60°-70°	172.1	2.3
70°-80°	44.9	0.6
80°-90°	19.6	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°	2916.6	38.4
0°-40°	4659.3	61.3
0°-60°	7359.2	96.9
0°-90°	7595.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7595.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3912	
5°	3883	368
15°	3660	1032
25°	3297	1517
35°	2790	1743
45°	2159	1660
55°	1210	1040
65°	138	172
75°	43	45
85°	19	20
90°	0	

TEST NUMBER: P866917

CATALOG NUMBER: PRLX-2002-L-927-100L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3912.2
2.5°	3908.2
5°	3883.3
7.5°	3843.8
10°	3790.7
12.5°	3730.4
15°	3659.6
17.5°	3582.3
20°	3496.2
22.5°	3400.5
25°	3296.7
27.5°	3186.4
30°	3063.3
32.5°	2929.8
35°	2790.5
37.5°	2644.1
40°	2490.4
42.5°	2327.1
45°	2158.9
47.5°	1979.5
50°	1803.2
52.5°	1574.7
55°	1210.2
57.5°	782.1
60°	444.2
62.5°	251.9
65°	138.4
67.5°	65.2
70°	51.5
72.5°	47.5
75°	42.6
77.5°	37.8
80°	33.0
82.5°	26.6
85°	19.3
87.5°	9.7
90°	0.0

TEST NUMBER: P866917

CATALOG NUMBER: PRLX-2002-L-927-100L-L-X-X-BRSS-X

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	17.50	18.90	17.87	19.21	19.52	17.50	18.90	17.87	19.21	19.52
	3H	17.42	18.64	17.80	18.97	19.34	17.42	18.64	17.80	18.97	19.34
	4H	17.38	18.51	17.78	18.86	19.25	17.38	18.51	17.78	18.86	19.25
	6H	17.34	18.38	17.75	18.75	19.14	17.34	18.38	17.75	18.75	19.14
	8H	17.31	18.30	17.74	18.69	19.10	17.31	18.30	17.74	18.69	19.10
	12H	17.29	18.24	17.72	18.62	19.05	17.29	18.24	17.72	18.62	19.05
4H	2H	17.37	18.51	17.77	18.86	19.24	17.37	18.51	17.77	18.86	19.24
	3H	17.31	18.22	17.72	18.63	19.03	17.31	18.22	17.72	18.63	19.03
	4H	17.26	18.08	17.70	18.50	18.94	17.26	18.08	17.70	18.50	18.94
	6H	17.24	17.95	17.71	18.39	18.86	17.24	17.95	17.71	18.39	18.86
	8H	17.22	17.88	17.69	18.33	18.80	17.22	17.88	17.69	18.33	18.80
	12H	17.21	17.79	17.70	18.28	18.75	17.21	17.79	17.70	18.28	18.75
8H	4H	17.15	17.81	17.62	18.26	18.73	17.15	17.81	17.62	18.26	18.73
	6H	17.13	17.68	17.64	18.17	18.65	17.13	17.68	17.64	18.17	18.65
	8H	17.12	17.61	17.64	18.13	18.62	17.12	17.61	17.64	18.13	18.62
	12H	17.13	17.57	17.64	18.06	18.63	17.13	17.57	17.64	18.06	18.63
12H	4H	17.11	17.70	17.60	18.18	18.65	17.11	17.70	17.60	18.18	18.65
	6H	17.08	17.57	17.60	18.09	18.58	17.08	17.57	17.60	18.09	18.58
	8H	17.09	17.54	17.61	18.03	18.60	17.09	17.54	17.61	18.03	18.60