

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: P866673

Luminaire Tested: PRLX-2001-L-927-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-117L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

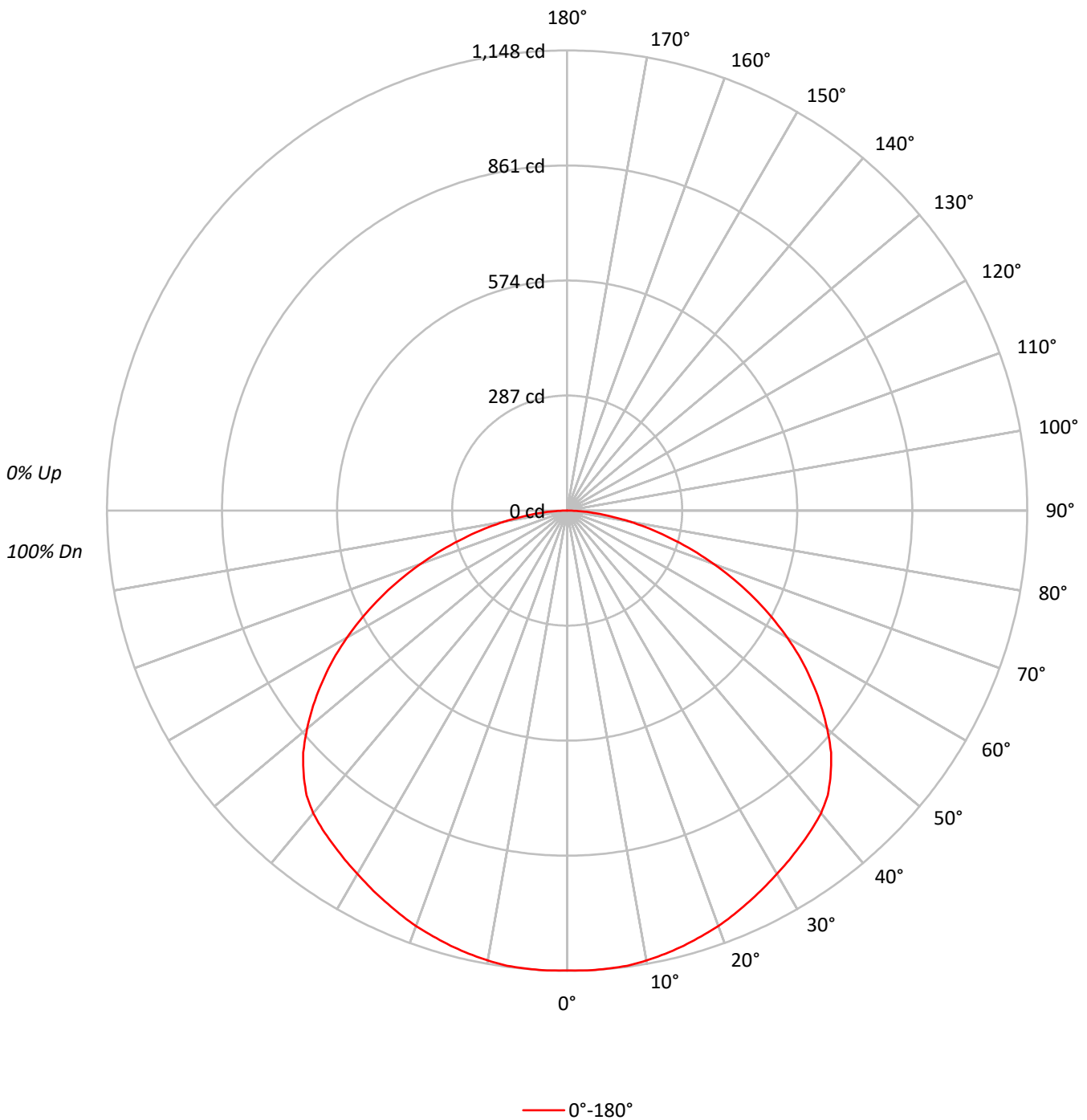
Lumens per Lamp: N/A
Luminaire Lumens: 3813.1 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866673

CATALOG NUMBER: PRLX-2001-L-927-117L-G-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866673

CATALOG NUMBER: PRLX-2001-L-927-117L-G-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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6272
5°	6296
10°	6327
15°	6360
20°	6418
25°	6489
30°	6607
35°	6791
40°	7033
45°	7189
50°	7205
55°	7114
60°	6936
65°	6648
70°	6213
75°	5646
80°	5009
85°	4071

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 7228 cd/sqm

TEST NUMBER: P866673

CATALOG NUMBER: PRLX-2001-L-927-117L-G-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	2.9
10°-20°	317.7	8.3
20°-30°	497.1	13.0
30°-40°	638.2	16.7
40°-50°	715.3	18.8
50°-60°	666.1	17.5
60°-70°	507.7	13.3
70°-80°	285.1	7.5
80°-90°	76.4	2.0
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°	924.1	24.2
0°-40°	1562.3	41.0
0°-60°	2943.8	77.2
0°-90°	3813.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1147	
5°	1147	109
15°	1124	318
25°	1076	497
35°	1018	638
45°	930	715
55°	746	666
65°	514	508
75°	267	285
85°	65	76
90°	0	

TEST NUMBER: P866673

CATALOG NUMBER: PRLX-2001-L-927-117L-G-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1147.3
2.5°	1148.3
5°	1147.3
7.5°	1145.5
10°	1139.8
12.5°	1132.3
15°	1123.8
17.5°	1113.5
20°	1103.1
22.5°	1089.9
25°	1075.8
27.5°	1061.7
30°	1046.6
32.5°	1032.5
35°	1017.5
37.5°	1002.4
40°	985.5
42.5°	962.9
45°	929.9
47.5°	893.2
50°	847.1
52.5°	798.2
55°	746.4
57.5°	692.7
60°	634.4
62.5°	575.1
65°	513.9
67.5°	451.8
70°	388.7
72.5°	328.5
75°	267.3
77.5°	211.8
80°	159.1
82.5°	108.2
85°	64.9
87.5°	28.2
90°	0.0



TEST NUMBER: P866673
 CATALOG NUMBER: PRLX-2001-L-927-117L-G-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	19.22	20.91	19.59	21.22	21.54	19.22	20.91	19.59	21.22	21.54
	3H	21.01	22.53	21.38	22.86	23.22	21.01	22.53	21.38	22.86	23.22
	4H	21.65	23.09	22.05	23.44	23.81	21.65	23.09	22.05	23.44	23.81
	6H	22.12	23.46	22.53	23.82	24.21	22.12	23.46	22.53	23.82	24.21
	8H	22.26	23.54	22.68	23.93	24.33	22.26	23.54	22.68	23.93	24.33
	12H	22.35	23.58	22.78	23.96	24.39	22.35	23.58	22.78	23.96	24.39
4H	2H	19.86	21.30	20.26	21.65	22.03	19.86	21.30	20.26	21.65	22.03
	3H	21.86	23.07	22.27	23.47	23.87	21.86	23.07	22.27	23.47	23.87
	4H	22.63	23.73	23.06	24.14	24.57	22.63	23.73	23.06	24.14	24.57
	6H	23.22	24.18	23.67	24.62	25.07	23.22	24.18	23.67	24.62	25.07
	8H	23.41	24.31	23.87	24.75	25.21	23.41	24.31	23.87	24.75	25.21
	12H	23.54	24.35	24.02	24.83	25.29	23.54	24.35	24.02	24.83	25.29
8H	4H	22.94	23.84	23.39	24.28	24.74	22.94	23.84	23.39	24.28	24.74
	6H	23.64	24.39	24.14	24.88	25.35	23.64	24.39	24.14	24.88	25.35
	8H	23.90	24.57	24.41	25.08	25.56	23.90	24.57	24.41	25.08	25.56
	12H	24.10	24.69	24.60	25.18	25.74	24.10	24.69	24.60	25.18	25.74
12H	4H	22.97	23.78	23.45	24.25	24.72	22.97	23.78	23.45	24.25	24.72
	6H	23.70	24.37	24.20	24.87	25.36	23.70	24.37	24.20	24.87	25.36
	8H	24.01	24.60	24.51	25.09	25.65	24.01	24.60	24.51	25.09	25.65