

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: P866717

Luminaire Tested: PRLX-2001-L-927-83L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-83L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

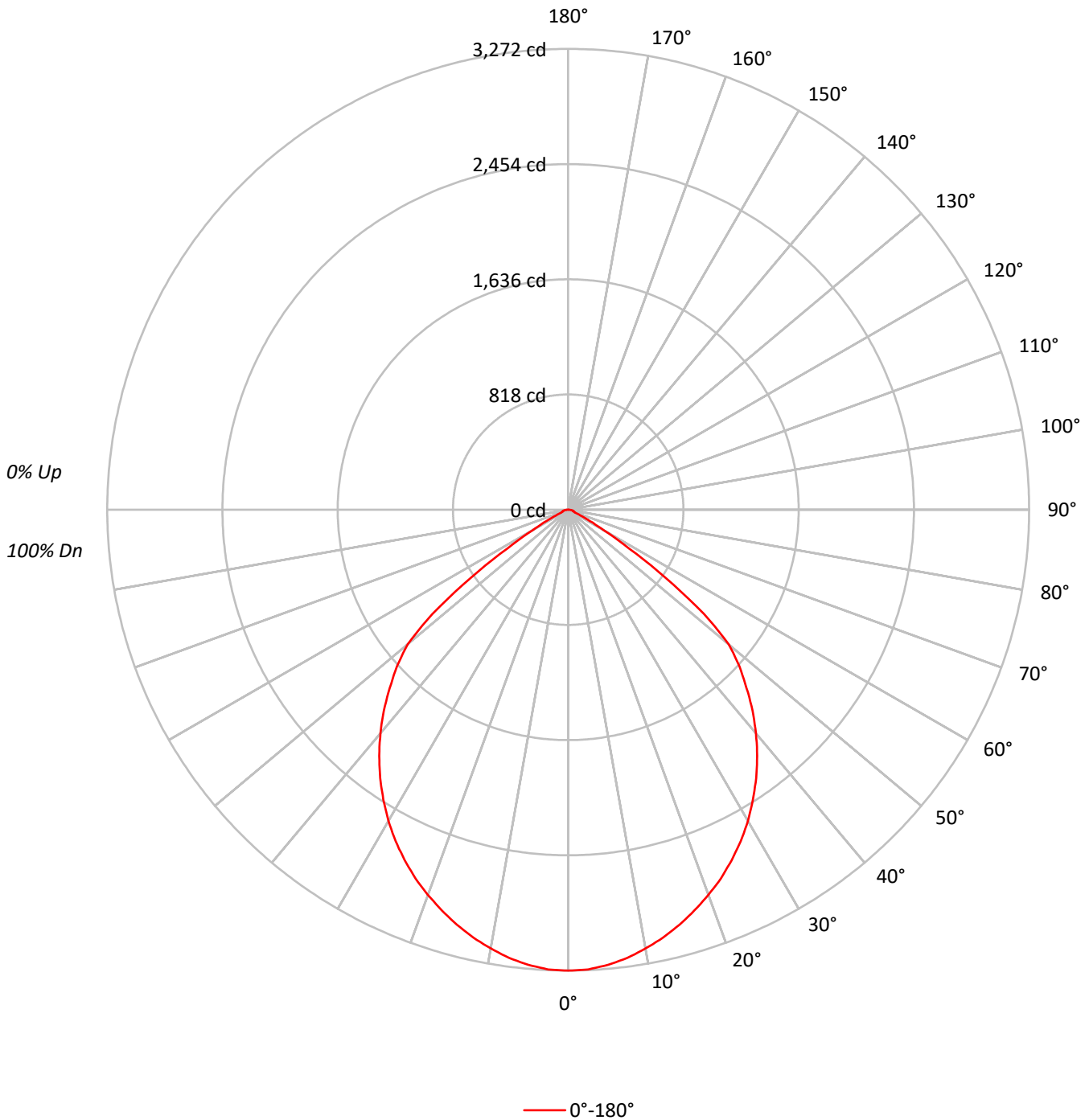
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6202.7 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: P866717
CATALOG NUMBER: PRLX-2001-L-927-83L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866717

CATALOG NUMBER: PRLX-2001-L-927-83L-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	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17889
5°	17804
10°	17561
15°	17265
20°	16935
25°	16559
30°	16102
35°	15521
40°	14795
45°	13843
50°	12654
55°	8030
60°	3185
65°	1219
70°	737
75°	805
80°	904
85°	1004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13843 cd/sqm

TEST NUMBER: P866717

CATALOG NUMBER: PRLX-2001-L-927-83L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	5.0
10°-20°	859.7	13.9
20°-30°	1263.6	20.4
30°-40°	1451.9	23.4
40°-50°	1379.5	22.2
50°-60°	764.9	12.3
60°-70°	119.4	1.9
70°-80°	40.1	0.6
80°-90°	16.6	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°	2430.4	39.2
0°-40°	3882.3	62.6
0°-60°	6026.6	97.2
0°-90°	6202.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6202.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3272	
5°	3244	307
15°	3050	860
25°	2745	1264
35°	2326	1452
45°	1790	1379
55°	842	765
65°	94	119
75°	38	40
85°	16	17
90°	0	

TEST NUMBER: P866717

CATALOG NUMBER: PRLX-2001-L-927-83L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	3272.3
2.5°	3267.0
5°	3244.3
7.5°	3210.2
10°	3163.4
12.5°	3112.0
15°	3050.5
17.5°	2983.0
20°	2910.9
22.5°	2832.7
25°	2745.2
27.5°	2653.0
30°	2550.8
32.5°	2441.2
35°	2325.6
37.5°	2203.4
40°	2073.1
42.5°	1937.5
45°	1790.5
47.5°	1648.2
50°	1487.9
52.5°	1214.6
55°	842.5
57.5°	512.4
60°	291.3
62.5°	173.0
65°	94.2
67.5°	51.4
70°	46.1
72.5°	42.1
75°	38.1
77.5°	34.1
80°	28.7
82.5°	22.7
85°	16.0
87.5°	8.0
90°	0.0



TEST NUMBER: P866717
 CATALOG NUMBER: PRLX-2001-L-927-83L-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	15.65	17.02	16.01	17.34	17.65	15.65	17.02	16.01	17.34	17.65
	3H	15.59	16.79	15.96	17.12	17.49	15.59	16.79	15.96	17.12	17.49
	4H	15.56	16.69	15.96	17.04	17.42	15.56	16.69	15.96	17.04	17.42
	6H	15.55	16.58	15.96	16.95	17.34	15.55	16.58	15.96	16.95	17.34
	8H	15.54	16.51	15.97	16.90	17.31	15.54	16.51	15.97	16.90	17.31
	12H	15.53	16.46	15.96	16.84	17.27	15.53	16.46	15.96	16.84	17.27
4H	2H	15.52	16.64	15.92	16.99	17.37	15.52	16.64	15.92	16.99	17.37
	3H	15.49	16.39	15.90	16.79	17.20	15.49	16.39	15.90	16.79	17.20
	4H	15.48	16.28	15.91	16.70	17.14	15.48	16.28	15.91	16.70	17.14
	6H	15.50	16.20	15.97	16.64	17.11	15.50	16.20	15.97	16.64	17.11
	8H	15.50	16.15	15.97	16.60	17.07	15.50	16.15	15.97	16.60	17.07
	12H	15.51	16.08	15.99	16.57	17.04	15.51	16.08	15.99	16.57	17.04
8H	4H	15.39	16.04	15.86	16.48	16.95	15.39	16.04	15.86	16.48	16.95
	6H	15.43	15.96	15.93	16.46	16.94	15.43	15.96	15.93	16.46	16.94
	8H	15.45	15.93	15.97	16.45	16.94	15.45	15.93	15.97	16.45	16.94
	12H	15.49	15.92	16.00	16.42	16.99	15.49	15.92	16.00	16.42	16.99
12H	4H	15.35	15.92	15.84	16.41	16.88	15.35	15.92	15.84	16.41	16.88
	6H	15.38	15.87	15.91	16.38	16.88	15.38	15.87	15.91	16.38	16.88
	8H	15.43	15.87	15.95	16.37	16.94	15.43	15.87	15.95	16.37	16.94