

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: P865944

Luminaire Tested: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

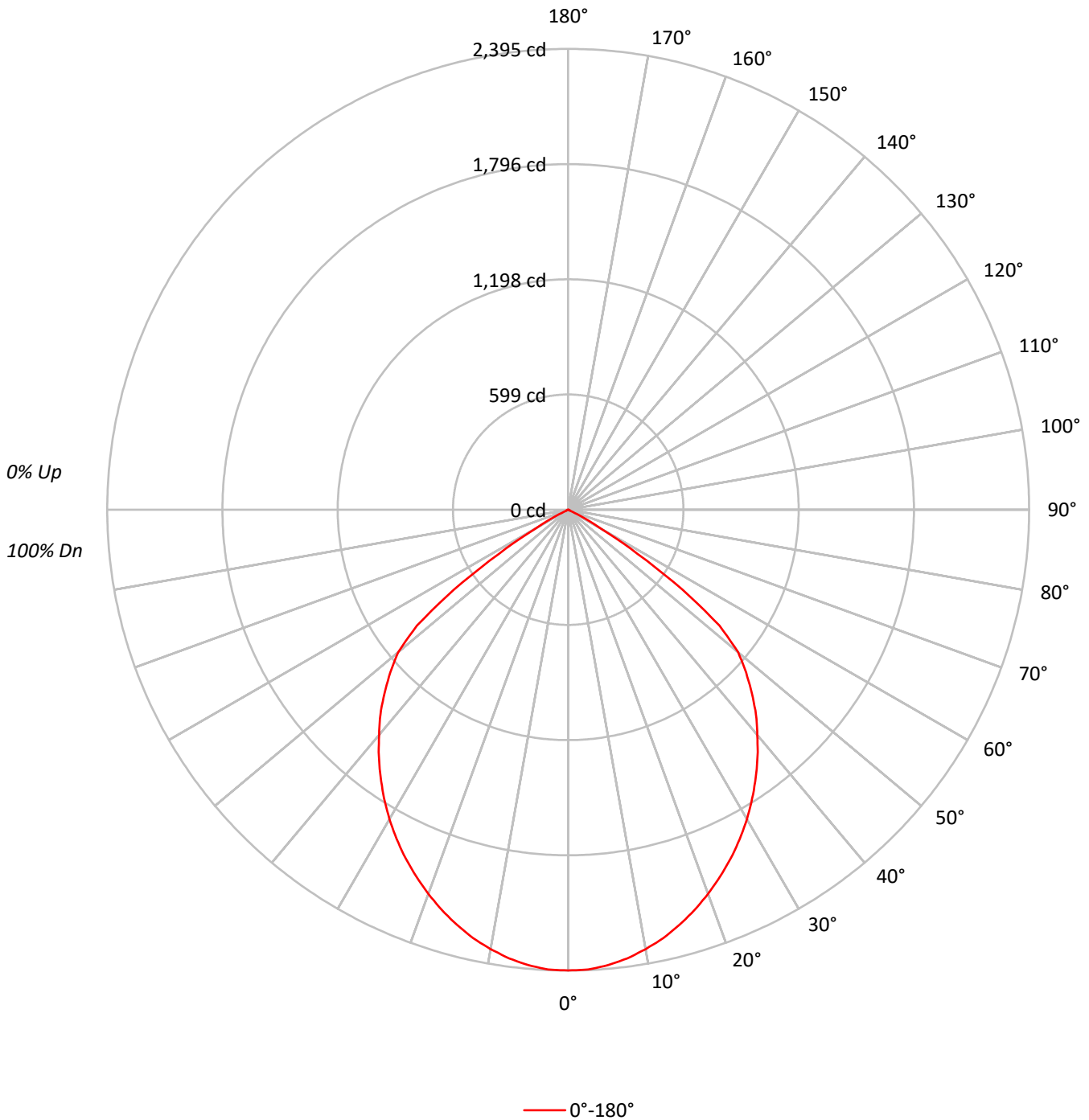
Lumens per Lamp: N/A
Luminaire Lumens: 4555.2 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): 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: P865944

CATALOG NUMBER: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P865944

CATALOG NUMBER: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	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°	20321
5°	20244
10°	19981
15°	19619
20°	19183
25°	18716
30°	18196
35°	17598
40°	16936
45°	16191
50°	15219
55°	10737
60°	3388
65°	231
70°	164
75°	161
80°	161
85°	156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16191 cd/sqm

TEST NUMBER: P865944

CATALOG NUMBER: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	4.9
10°-20°	629.1	13.8
20°-30°	920.1	20.2
30°-40°	1062.0	23.3
40°-50°	1039.2	22.8
50°-60°	623.4	13.7
60°-70°	48.6	1.1
70°-80°	5.6	0.1
80°-90°	2.2	0.0
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°	1774.2	38.9
0°-40°	2836.1	62.3
0°-60°	4498.7	98.8
0°-90°	4555.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2395	
5°	2376	225
15°	2233	629
25°	1999	920
35°	1699	1062
45°	1349	1039
55°	726	623
65°	12	49
75°	5	6
85°	2	2
90°	0	

TEST NUMBER: P865944

CATALOG NUMBER: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2394.7
2.5°	2391.4
5°	2376.5
7.5°	2351.8
10°	2318.8
12.5°	2280.9
15°	2233.1
17.5°	2181.9
20°	2124.2
22.5°	2063.2
25°	1998.9
27.5°	1929.6
30°	1857.0
32.5°	1779.5
35°	1698.7
37.5°	1616.3
40°	1528.8
42.5°	1444.7
45°	1349.1
47.5°	1253.4
50°	1152.8
52.5°	989.5
55°	725.7
57.5°	427.2
60°	199.6
62.5°	79.2
65°	11.5
67.5°	6.6
70°	6.6
72.5°	6.6
75°	4.9
77.5°	4.9
80°	3.3
82.5°	3.3
85°	1.6
87.5°	1.6
90°	0.0



TEST NUMBER: P865944
 CATALOG NUMBER: PRLX-2001-M-927-65L-L-U-S-X-X-BLAK-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	16.93	18.31	17.29	18.62	18.93	16.93	18.31	17.29	18.62	18.93
	3H	16.81	18.01	17.19	18.34	18.71	16.81	18.01	17.19	18.34	18.71
	4H	16.74	17.86	17.14	18.21	18.59	16.74	17.86	17.14	18.21	18.59
	6H	16.67	17.69	17.08	18.06	18.45	16.67	17.69	17.08	18.06	18.45
	8H	16.63	17.59	17.06	17.99	18.39	16.63	17.59	17.06	17.99	18.39
	12H	16.59	17.51	17.02	17.89	18.32	16.59	17.51	17.02	17.89	18.32
4H	2H	16.74	17.86	17.14	18.21	18.59	16.74	17.86	17.14	18.21	18.59
	3H	16.62	17.52	17.03	17.92	18.32	16.62	17.52	17.03	17.92	18.32
	4H	16.54	17.33	16.97	17.75	18.19	16.54	17.33	16.97	17.75	18.19
	6H	16.46	17.14	16.92	17.59	18.06	16.46	17.14	16.92	17.59	18.06
	8H	16.40	17.04	16.87	17.49	17.96	16.40	17.04	16.87	17.49	17.96
	12H	16.36	16.92	16.84	17.40	17.88	16.36	16.92	16.84	17.40	17.88
8H	4H	16.40	17.04	16.87	17.49	17.96	16.40	17.04	16.87	17.49	17.96
	6H	16.29	16.82	16.80	17.32	17.80	16.29	16.82	16.80	17.32	17.80
	8H	16.23	16.71	16.75	17.22	17.71	16.23	16.71	16.75	17.22	17.71
	12H	16.18	16.61	16.69	17.10	17.67	16.18	16.61	16.69	17.10	17.67
12H	4H	16.35	16.92	16.84	17.40	17.87	16.35	16.92	16.84	17.40	17.87
	6H	16.23	16.71	16.75	17.22	17.71	16.23	16.71	16.75	17.22	17.71
	8H	16.18	16.61	16.69	17.10	17.67	16.18	16.61	16.69	17.10	17.67