

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: P865576

Luminaire Tested: PRLX-2002-S-927-05L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-05L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

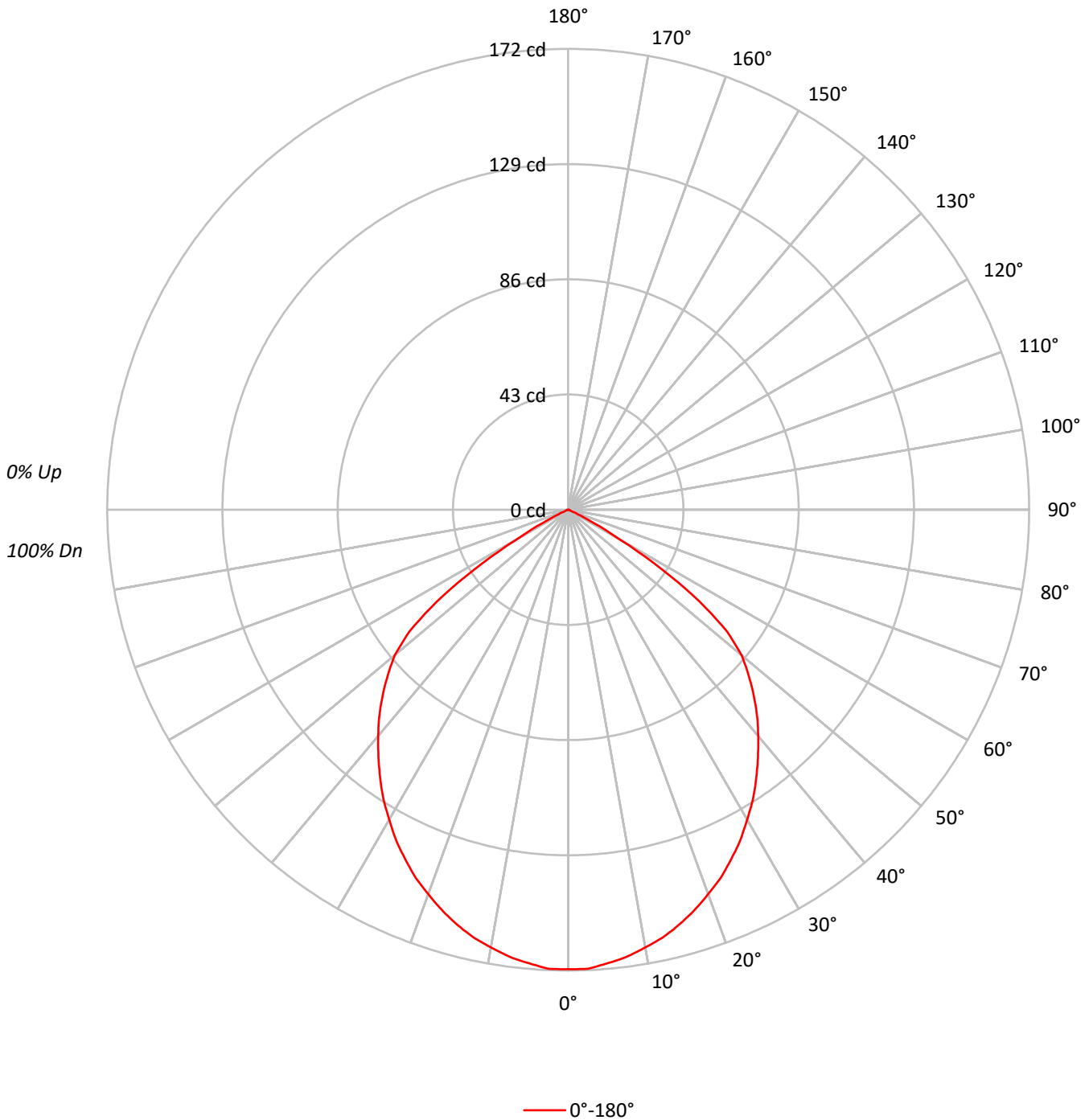
Lumens per Lamp: N/A
Luminaire Lumens: 337.8 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: P865576

CATALOG NUMBER: PRLX-2002-S-927-05L-L-U-S-X-X-BLAK-X

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	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	95	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3222
5°	3204
10°	3164
15°	3117
20°	3052
25°	2982
30°	2896
35°	2805
40°	2705
45°	2601
50°	2466
55°	1965
60°	857
65°	178
70°	22
75°	29
80°	43
85°	86

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2601 cd/sqm

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CATALOG NUMBER: PRLX-2002-S-927-05L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	4.8
10°-20°	45.1	13.4
20°-30°	66.3	19.6
30°-40°	76.5	22.6
40°-50°	75.4	22.3
50°-60°	51.0	15.1
60°-70°	6.6	2.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	127.5	37.7
0°-40°	204.0	60.4
0°-60°	330.4	97.8
0°-90°	337.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	337.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	172	
5°	170	16
15°	160	45
25°	144	66
35°	122	76
45°	98	75
55°	60	51
65°	4	7
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	171.5
2.5°	171.5
5°	169.9
7.5°	168.3
10°	165.9
12.5°	163.5
15°	160.3
17.5°	156.7
20°	152.7
22.5°	148.7
25°	143.9
27.5°	139.1
30°	133.5
32.5°	128.3
35°	122.3
37.5°	116.3
40°	110.3
42.5°	104.3
45°	97.9
47.5°	91.2
50°	84.4
52.5°	74.8
55°	60.0
57.5°	41.6
60°	22.8
62.5°	10.8
65°	4.0
67.5°	0.8
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.4
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	12.55	13.96	12.92	14.27	14.58	12.55	13.96	12.92	14.27	14.58
	3H	12.44	13.67	12.81	14.00	14.36	12.44	13.67	12.81	14.00	14.36
	4H	12.37	13.51	12.77	13.86	14.24	12.37	13.51	12.77	13.86	14.24
	6H	12.30	13.34	12.71	13.71	14.11	12.30	13.34	12.71	13.71	14.11
	8H	12.26	13.25	12.69	13.64	14.04	12.26	13.25	12.69	13.64	14.04
	12H	12.22	13.17	12.65	13.55	13.98	12.22	13.17	12.65	13.55	13.98
4H	2H	12.39	13.53	12.79	13.88	14.26	12.39	13.53	12.79	13.88	14.26
	3H	12.27	13.19	12.68	13.59	14.00	12.27	13.19	12.68	13.59	14.00
	4H	12.19	13.00	12.62	13.42	13.87	12.19	13.00	12.62	13.42	13.87
	6H	12.11	12.82	12.58	13.26	13.73	12.11	12.82	12.58	13.26	13.73
	8H	12.06	12.72	12.53	13.16	13.63	12.06	12.72	12.53	13.16	13.63
	12H	12.02	12.60	12.50	13.08	13.56	12.02	12.60	12.50	13.08	13.56
8H	4H	12.06	12.71	12.52	13.16	13.63	12.06	12.71	12.52	13.16	13.63
	6H	11.95	12.50	12.46	12.99	13.47	11.95	12.50	12.46	12.99	13.47
	8H	11.89	12.38	12.41	12.90	13.39	11.89	12.38	12.41	12.90	13.39
	12H	11.85	12.29	12.36	12.78	13.35	11.85	12.29	12.36	12.78	13.35
12H	4H	12.01	12.59	12.50	13.07	13.55	12.01	12.59	12.50	13.07	13.55
	6H	11.89	12.38	12.41	12.89	13.39	11.89	12.38	12.41	12.89	13.39
	8H	11.84	12.28	12.36	12.78	13.35	11.84	12.28	12.36	12.78	13.35