

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: P865440

Luminaire Tested: PRLX-2001-S-927-20L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-20L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

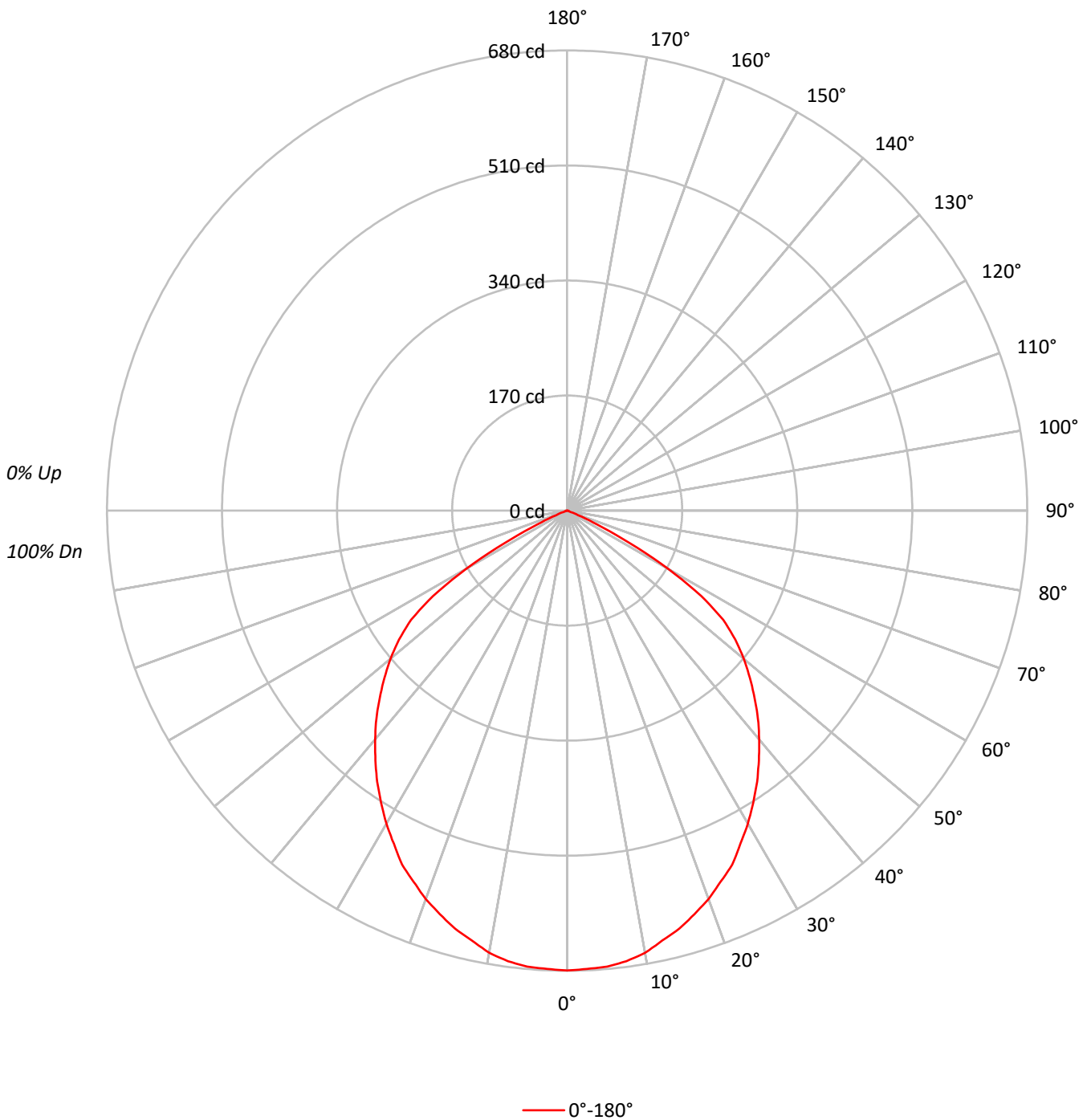
Lumens per Lamp: N/A
Luminaire Lumens: 1425.7 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: P865440

CATALOG NUMBER: PRLX-2001-S-927-20L-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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11084
5°	11074
10°	10990
15°	10802
20°	10603
25°	10389
30°	10059
35°	9742
40°	9398
45°	9037
50°	8642
55°	8002
60°	5634
65°	1852
70°	153
75°	101
80°	150
85°	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	4.5
10°-20°	180.2	12.6
20°-30°	264.9	18.6
30°-40°	305.7	21.4
40°-50°	302.2	21.2
50°-60°	242.3	17.0
60°-70°	62.8	4.4
70°-80°	1.9	0.1
80°-90°	1.5	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°	509.2	35.7
0°-40°	815.0	57.2
0°-60°	1359.5	95.4
0°-90°	1425.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	680	
5°	676	64
15°	640	180
25°	577	265
35°	489	306
45°	392	302
55°	281	242
65°	48	63
75°	2	2
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	679.6
2.5°	678.0
5°	676.4
7.5°	671.6
10°	663.6
12.5°	650.8
15°	639.7
17.5°	625.3
20°	610.9
22.5°	593.3
25°	577.3
27.5°	554.9
30°	534.1
32.5°	511.7
35°	489.3
37.5°	465.3
40°	441.4
42.5°	417.4
45°	391.8
47.5°	366.2
50°	340.6
52.5°	313.4
55°	281.4
57.5°	235.1
60°	172.7
62.5°	103.9
65°	48.0
67.5°	17.6
70°	3.2
72.5°	1.6
75°	1.6
77.5°	1.6
80°	1.6
82.5°	1.6
85°	1.6
87.5°	1.6
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	19.14	20.59	19.50	20.90	21.21	19.14	20.59	19.50	20.90	21.21
	3H	19.03	20.31	19.41	20.64	21.00	19.03	20.31	19.41	20.64	21.00
	4H	18.97	20.16	19.37	20.51	20.89	18.97	20.16	19.37	20.51	20.89
	6H	18.90	19.99	19.31	20.36	20.75	18.90	19.99	19.31	20.36	20.75
	8H	18.86	19.90	19.29	20.29	20.69	18.86	19.90	19.29	20.29	20.69
	12H	18.83	19.82	19.26	20.20	20.63	18.83	19.82	19.26	20.20	20.63
4H	2H	19.04	20.23	19.44	20.58	20.96	19.04	20.23	19.44	20.58	20.96
	3H	18.94	19.90	19.36	20.30	20.71	18.94	19.90	19.36	20.30	20.71
	4H	18.87	19.72	19.30	20.14	20.58	18.87	19.72	19.30	20.14	20.58
	6H	18.80	19.53	19.26	19.97	20.44	18.80	19.53	19.26	19.97	20.44
	8H	18.74	19.43	19.21	19.88	20.35	18.74	19.43	19.21	19.88	20.35
	12H	18.70	19.31	19.19	19.79	20.27	18.70	19.31	19.19	19.79	20.27
8H	4H	18.74	19.43	19.21	19.87	20.34	18.74	19.43	19.21	19.87	20.34
	6H	18.65	19.21	19.15	19.71	20.19	18.65	19.21	19.15	19.71	20.19
	8H	18.59	19.10	19.10	19.61	20.10	18.59	19.10	19.10	19.61	20.10
	12H	18.54	19.00	19.06	19.49	20.06	18.54	19.00	19.06	19.49	20.06
12H	4H	18.70	19.31	19.19	19.79	20.26	18.70	19.31	19.19	19.79	20.26
	6H	18.58	19.09	19.10	19.61	20.10	18.58	19.09	19.10	19.61	20.10
	8H	18.54	19.00	19.05	19.49	20.06	18.54	19.00	19.05	19.49	20.06