

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: P866160

Luminaire Tested: PRLX-2002-M-927-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-15L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

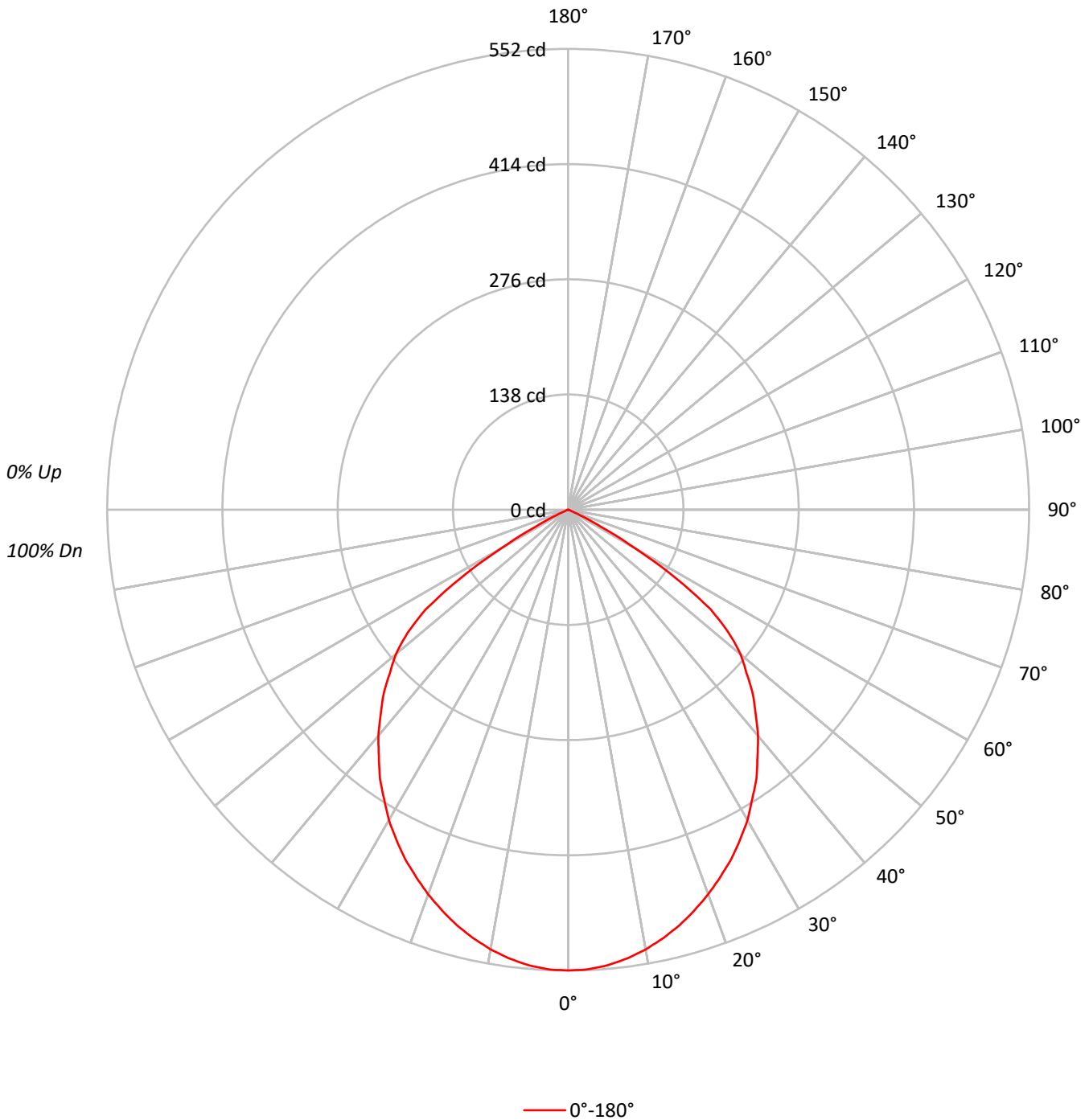
Lumens per Lamp: N/A
Luminaire Lumens: 1098.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P866160

CATALOG NUMBER: PRLX-2002-M-927-15L-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	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4391
5°	4374
10°	4320
15°	4244
20°	4150
25°	4053
30°	3944
35°	3819
40°	3672
45°	3519
50°	3336
55°	2888
60°	1478
65°	286
70°	26
75°	34
80°	37
85°	37

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3519 cd/sqm

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CATALOG NUMBER: PRLX-2002-M-927-15L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	4.7
10°-20°	145.1	13.2
20°-30°	212.5	19.3
30°-40°	245.2	22.3
40°-50°	240.4	21.9
50°-60°	174.7	15.9
60°-70°	26.8	2.4
70°-80°	1.0	0.1
80°-90°	0.5	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°	409.4	37.3
0°-40°	654.6	59.6
0°-60°	1069.7	97.4
0°-90°	1098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	552	
5°	548	52
15°	515	145
25°	462	212
35°	393	245
45°	313	240
55°	208	175
65°	15	27
75°	1	1
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	551.9
2.5°	551.1
5°	547.7
7.5°	542.0
10°	534.7
12.5°	525.6
15°	515.3
17.5°	503.1
20°	490.2
22.5°	476.1
25°	461.7
27.5°	445.7
30°	429.3
32.5°	410.3
35°	393.2
37.5°	372.2
40°	353.6
42.5°	332.3
45°	312.8
47.5°	289.6
50°	269.5
52.5°	242.4
55°	208.2
57.5°	153.8
60°	92.9
62.5°	44.1
65°	15.2
67.5°	3.8
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.8
80°	0.8
82.5°	0.8
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	14.58	15.99	14.94	16.30	16.62	14.58	15.99	14.94	16.30	16.62
	3H	14.46	15.70	14.84	16.03	16.39	14.46	15.70	14.84	16.03	16.39
	4H	14.39	15.55	14.79	15.90	16.28	14.39	15.55	14.79	15.90	16.28
	6H	14.32	15.38	14.73	15.75	16.14	14.32	15.38	14.73	15.75	16.14
	8H	14.28	15.28	14.71	15.67	16.08	14.28	15.28	14.71	15.67	16.08
	12H	14.24	15.20	14.67	15.58	16.01	14.24	15.20	14.67	15.58	16.01
4H	2H	14.41	15.57	14.82	15.92	16.30	14.41	15.57	14.82	15.92	16.30
	3H	14.30	15.23	14.71	15.63	16.03	14.30	15.23	14.71	15.63	16.03
	4H	14.22	15.04	14.65	15.46	15.90	14.22	15.04	14.65	15.46	15.90
	6H	14.14	14.85	14.60	15.30	15.76	14.14	14.85	14.60	15.30	15.76
	8H	14.09	14.75	14.56	15.20	15.67	14.09	14.75	14.56	15.20	15.67
	12H	14.04	14.63	14.53	15.11	15.58	14.04	14.63	14.53	15.11	15.58
8H	4H	14.09	14.75	14.56	15.19	15.66	14.09	14.75	14.56	15.19	15.66
	6H	13.98	14.53	14.48	15.02	15.51	13.98	14.53	14.48	15.02	15.51
	8H	13.92	14.41	14.44	14.93	15.42	13.92	14.41	14.44	14.93	15.42
	12H	13.87	14.31	14.38	14.81	15.38	13.87	14.31	14.38	14.81	15.38
12H	4H	14.04	14.63	14.53	15.11	15.58	14.04	14.63	14.53	15.11	15.58
	6H	13.92	14.41	14.44	14.93	15.42	13.92	14.41	14.44	14.93	15.42
	8H	13.87	14.31	14.38	14.81	15.38	13.87	14.31	14.38	14.81	15.38