

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: P866152

Luminaire Tested: PRLX-2002-M-927-07L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866152
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-927-07L-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 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

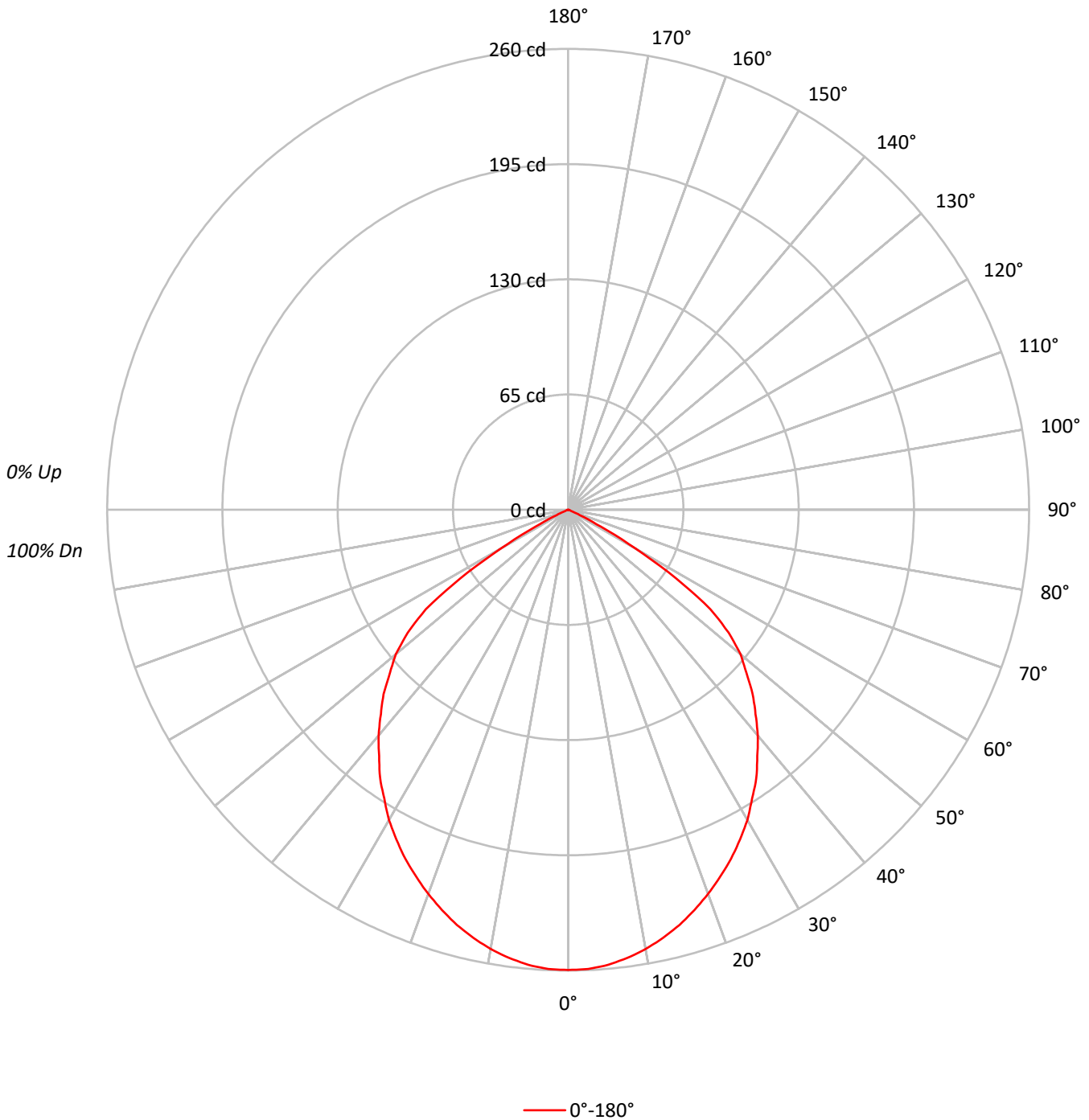
Lumens per Lamp: N/A
Luminaire Lumens: 516.8 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866152

CATALOG NUMBER: PRLX-2002-M-927-07L-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°	2066
5°	2059
10°	2033
15°	1997
20°	1953
25°	1908
30°	1857
35°	1797
40°	1728
45°	1656
50°	1569
55°	1359
60°	695
65°	136
70°	12
75°	15
80°	18
85°	18

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1656 cd/sqm

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CATALOG NUMBER: PRLX-2002-M-927-07L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	4.7
10°-20°	68.3	13.2
20°-30°	100.0	19.4
30°-40°	115.4	22.3
40°-50°	113.1	21.9
50°-60°	82.2	15.9
60°-70°	12.6	2.4
70°-80°	0.5	0.1
80°-90°	0.3	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°	192.7	37.3
0°-40°	308.1	59.6
0°-60°	503.5	97.4
0°-90°	516.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	260	
5°	258	24
15°	242	68
25°	217	100
35°	185	115
45°	147	113
55°	98	82
65°	7	13
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	259.7
2.5°	259.4
5°	257.8
7.5°	255.1
10°	251.7
12.5°	247.4
15°	242.5
17.5°	236.8
20°	230.7
22.5°	224.1
25°	217.3
27.5°	209.8
30°	202.1
32.5°	193.1
35°	185.0
37.5°	175.2
40°	166.4
42.5°	156.4
45°	147.2
47.5°	136.3
50°	126.8
52.5°	114.1
55°	98.0
57.5°	72.4
60°	43.7
62.5°	20.8
65°	7.2
67.5°	1.8
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.2
87.5°	0.2
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	11.96	13.37	12.32	13.69	14.00	11.96	13.37	12.32	13.69	14.00
	3H	11.84	13.08	12.22	13.41	13.78	11.84	13.08	12.22	13.41	13.78
	4H	11.78	12.93	12.18	13.28	13.66	11.78	12.93	12.18	13.28	13.66
	6H	11.70	12.76	12.12	13.13	13.52	11.70	12.76	12.12	13.13	13.52
	8H	11.66	12.66	12.09	13.05	13.46	11.66	12.66	12.09	13.05	13.46
	12H	11.62	12.58	12.06	12.96	13.39	11.62	12.58	12.06	12.96	13.39
4H	2H	11.80	12.95	12.20	13.30	13.68	11.80	12.95	12.20	13.30	13.68
	3H	11.68	12.61	12.09	13.01	13.41	11.68	12.61	12.09	13.01	13.41
	4H	11.60	12.42	12.04	12.84	13.28	11.60	12.42	12.04	12.84	13.28
	6H	11.53	12.23	11.99	12.68	13.14	11.53	12.23	11.99	12.68	13.14
	8H	11.47	12.13	11.94	12.58	13.05	11.47	12.13	11.94	12.58	13.05
	12H	11.43	12.01	11.91	12.49	12.97	11.43	12.01	11.91	12.49	12.97
8H	4H	11.47	12.13	11.94	12.58	13.05	11.47	12.13	11.94	12.58	13.05
	6H	11.37	11.91	11.87	12.41	12.89	11.37	11.91	11.87	12.41	12.89
	8H	11.30	11.80	11.82	12.31	12.80	11.30	11.80	11.82	12.31	12.80
	12H	11.25	11.70	11.77	12.19	12.76	11.25	11.70	11.77	12.19	12.76
12H	4H	11.42	12.01	11.91	12.49	12.97	11.42	12.01	11.91	12.49	12.97
	6H	11.30	11.80	11.82	12.31	12.80	11.30	11.80	11.82	12.31	12.80
	8H	11.25	11.70	11.76	12.19	12.76	11.25	11.70	11.76	12.19	12.76