

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: P866211

Luminaire Tested: PRLX-2002-M-927-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-75L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

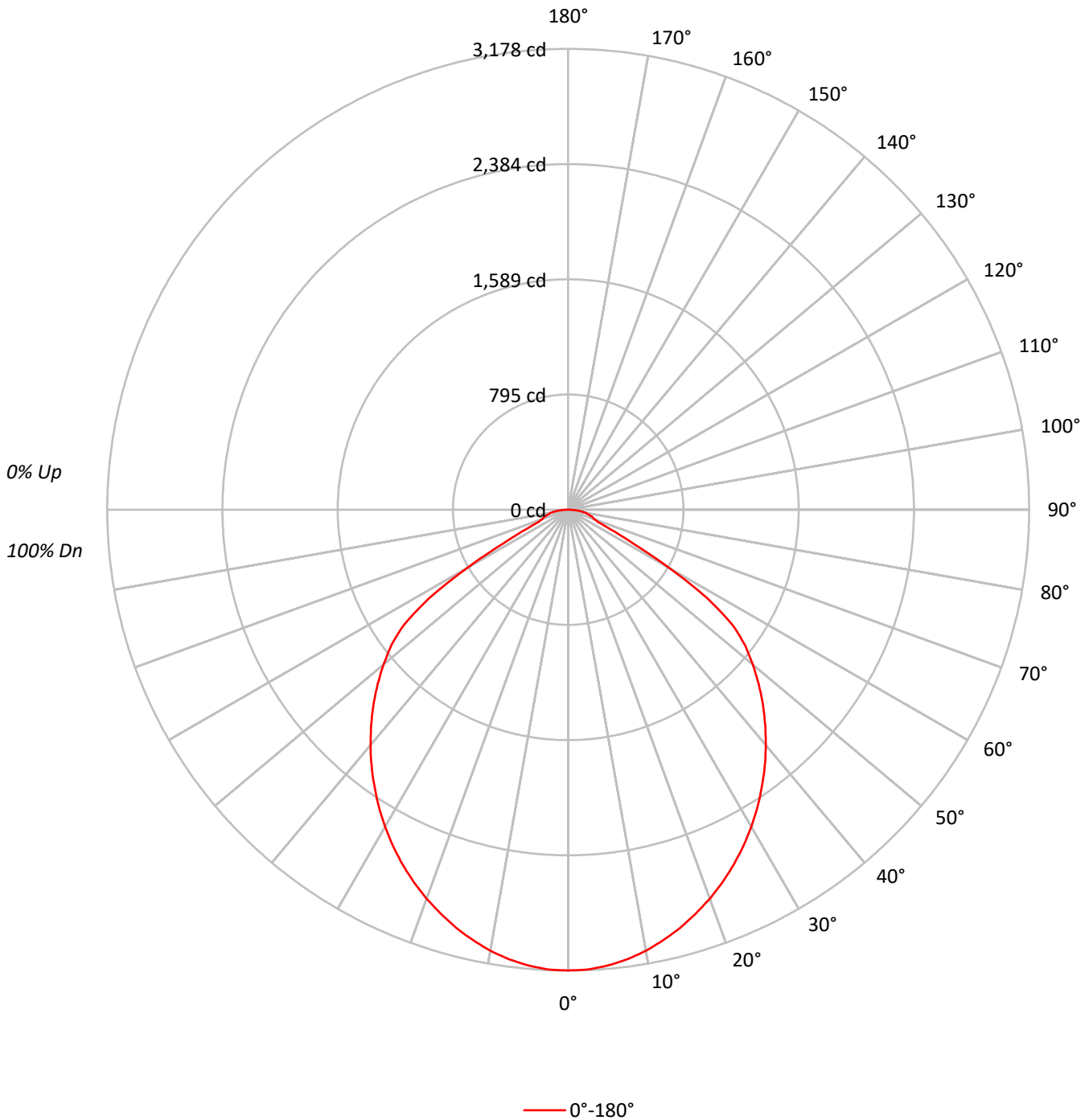
Lumens per Lamp: N/A
Luminaire Lumens: 7097.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25283
5°	25197
10°	24950
15°	24592
20°	24166
25°	23704
30°	23198
35°	22622
40°	22016
45°	21347
50°	20562
55°	19163
60°	12869
65°	6090
70°	4471
75°	4795
80°	5319
85°	5906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21347 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	4.2
10°-20°	841.2	11.9
20°-30°	1243.5	17.5
30°-40°	1456.9	20.5
40°-50°	1462.5	20.6
50°-60°	1180.3	16.6
60°-70°	381.5	5.4
70°-80°	164.8	2.3
80°-90°	68.1	1.0
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°	2383.7	33.6
0°-40°	3840.7	54.1
0°-60°	6483.5	91.3
0°-90°	7097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7097.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3178	
5°	3155	299
15°	2986	841
25°	2700	1244
35°	2329	1457
45°	1897	1462
55°	1382	1180
65°	324	382
75°	156	165
85°	65	68
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3178.0
2.5°	3174.1
5°	3155.1
7.5°	3126.6
10°	3088.5
12.5°	3039.0
15°	2985.8
17.5°	2921.1
20°	2854.4
22.5°	2780.2
25°	2700.3
27.5°	2614.7
30°	2525.2
32.5°	2430.1
35°	2329.2
37.5°	2226.5
40°	2119.9
42.5°	2009.5
45°	1897.3
47.5°	1781.2
50°	1661.3
52.5°	1537.6
55°	1381.6
57.5°	1139.9
60°	808.8
62.5°	506.2
65°	323.5
67.5°	222.6
70°	192.2
72.5°	177.0
75°	156.0
77.5°	137.0
80°	116.1
82.5°	93.2
85°	64.7
87.5°	34.3
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	21.96	23.46	22.32	23.77	24.09	21.96	23.46	22.32	23.77	24.09
	3H	22.07	23.40	22.44	23.73	24.09	22.07	23.40	22.44	23.73	24.09
	4H	22.15	23.40	22.55	23.75	24.12	22.15	23.40	22.55	23.75	24.12
	6H	22.27	23.41	22.68	23.78	24.17	22.27	23.41	22.68	23.78	24.17
	8H	22.32	23.41	22.75	23.80	24.20	22.32	23.41	22.75	23.80	24.20
	12H	22.37	23.41	22.80	23.80	24.22	22.37	23.41	22.80	23.80	24.22
4H	2H	21.92	23.17	22.32	23.51	23.89	21.92	23.17	22.32	23.51	23.89
	3H	22.13	23.14	22.54	23.54	23.95	22.13	23.14	22.54	23.54	23.95
	4H	22.28	23.19	22.72	23.61	24.05	22.28	23.19	22.72	23.61	24.05
	6H	22.50	23.29	22.96	23.74	24.20	22.50	23.29	22.96	23.74	24.20
	8H	22.61	23.34	23.07	23.79	24.26	22.61	23.34	23.07	23.79	24.26
	12H	22.71	23.37	23.19	23.85	24.32	22.71	23.37	23.19	23.85	24.32
8H	4H	22.30	23.04	22.76	23.48	23.95	22.30	23.04	22.76	23.48	23.95
	6H	22.60	23.21	23.10	23.70	24.18	22.60	23.21	23.10	23.70	24.18
	8H	22.76	23.32	23.28	23.83	24.32	22.76	23.32	23.28	23.83	24.32
	12H	22.94	23.44	23.45	23.93	24.50	22.94	23.44	23.45	23.93	24.50
12H	4H	22.29	22.95	22.77	23.43	23.90	22.29	22.95	22.77	23.43	23.90
	6H	22.60	23.16	23.12	23.67	24.16	22.60	23.16	23.12	23.67	24.16
	8H	22.82	23.32	23.33	23.81	24.37	22.82	23.32	23.33	23.81	24.37