

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: P867079

Luminaire Tested: PRLX-2002-L-935-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-32L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

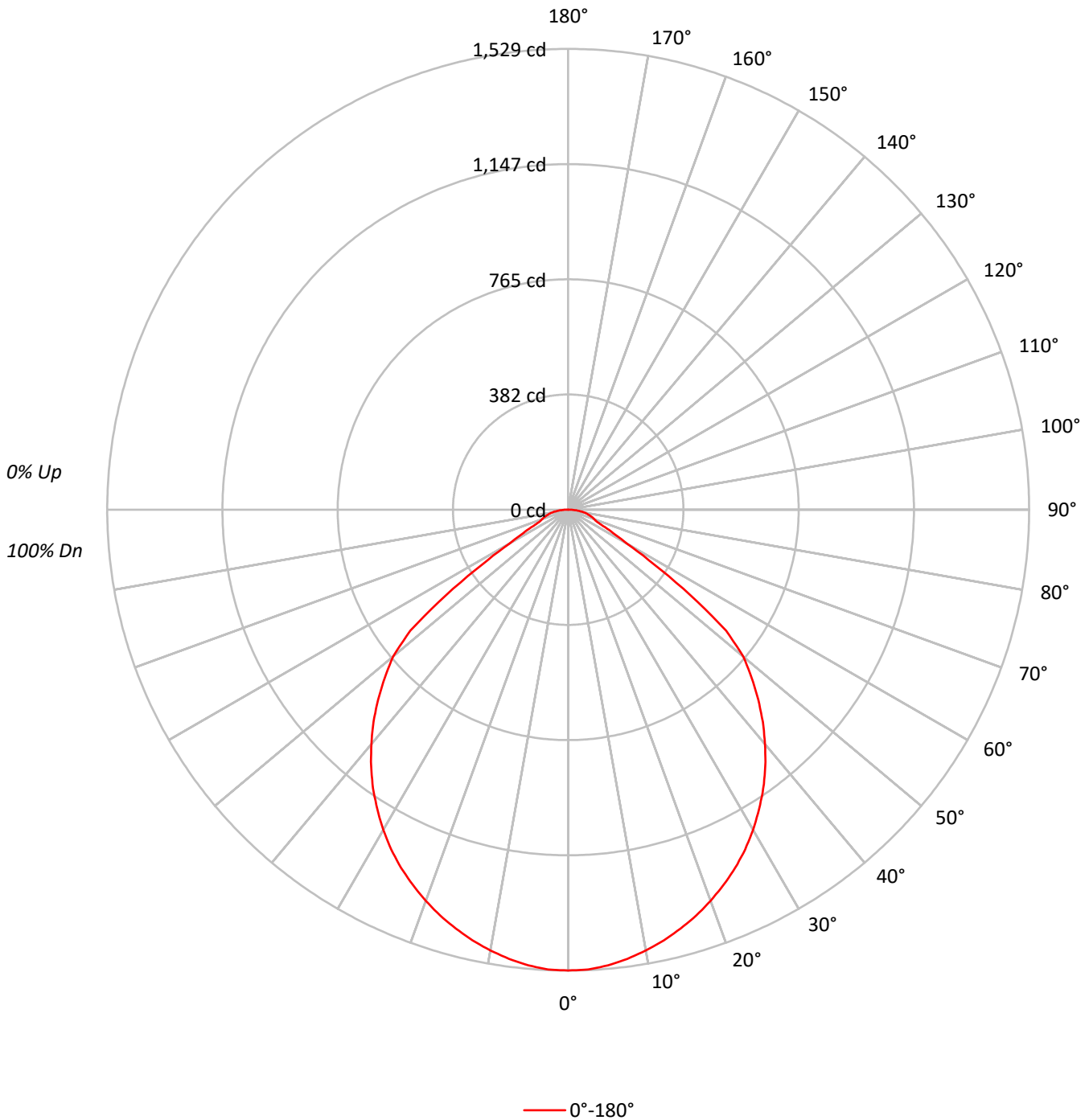
Lumens per Lamp: N/A
Luminaire Lumens: 3229.8 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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

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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	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	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°	7544
5°	7516
10°	7438
15°	7349
20°	7249
25°	7137
30°	6986
35°	6795
40°	6541
45°	6218
50°	5817
55°	4261
60°	2227
65°	1484
70°	1327
75°	1411
80°	1543
85°	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.5
10°-20°	405.8	12.6
20°-30°	603.4	18.7
30°-40°	704.4	21.8
40°-50°	686.3	21.2
50°-60°	439.7	13.6
60°-70°	136.9	4.2
70°-80°	78.0	2.4
80°-90°	31.6	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°	1153.0	35.7
0°-40°	1857.4	57.5
0°-60°	2983.3	92.4
0°-90°	3229.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1529	
5°	1518	144
15°	1439	406
25°	1311	603
35°	1128	704
45°	891	686
55°	495	440
65°	127	137
75°	74	78
85°	30	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1529.0
2.5°	1526.7
5°	1517.6
7.5°	1503.3
10°	1484.7
12.5°	1463.9
15°	1438.7
17.5°	1411.9
20°	1380.7
22.5°	1347.3
25°	1311.0
27.5°	1271.0
30°	1226.2
32.5°	1178.5
35°	1128.2
37.5°	1073.9
40°	1015.6
42.5°	955.4
45°	891.1
47.5°	825.4
50°	757.9
52.5°	659.7
55°	495.4
57.5°	335.4
60°	225.7
62.5°	168.3
65°	127.1
67.5°	100.8
70°	92.0
72.5°	83.7
75°	74.0
77.5°	64.6
80°	54.3
82.5°	42.9
85°	30.0
87.5°	16.0
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	14.57	16.03	14.94	16.34	16.65	14.57	16.03	14.94	16.34	16.65
	3H	14.99	16.28	15.37	16.61	16.97	14.99	16.28	15.37	16.61	16.97
	4H	15.27	16.48	15.67	16.82	17.21	15.27	16.48	15.67	16.82	17.21
	6H	15.59	16.70	16.00	17.07	17.46	15.59	16.70	16.00	17.07	17.46
	8H	15.74	16.79	16.16	17.18	17.58	15.74	16.79	16.16	17.18	17.58
	12H	15.86	16.87	16.29	17.25	17.68	15.86	16.87	16.29	17.25	17.68
4H	2H	14.63	15.83	15.03	16.18	16.56	14.63	15.83	15.03	16.18	16.56
	3H	15.24	16.23	15.66	16.63	17.03	15.24	16.23	15.66	16.63	17.03
	4H	15.67	16.55	16.10	16.97	17.41	15.67	16.55	16.10	16.97	17.41
	6H	16.16	16.92	16.62	17.37	17.83	16.16	16.92	16.62	17.37	17.83
	8H	16.38	17.10	16.85	17.54	18.01	16.38	17.10	16.85	17.54	18.01
	12H	16.58	17.22	17.07	17.70	18.17	16.58	17.22	17.07	17.70	18.17
8H	4H	15.81	16.53	16.28	16.97	17.44	15.81	16.53	16.28	16.97	17.44
	6H	16.44	17.04	16.94	17.53	18.01	16.44	17.04	16.94	17.53	18.01
	8H	16.76	17.30	17.28	17.81	18.30	16.76	17.30	17.28	17.81	18.30
	12H	17.07	17.55	17.58	18.05	18.61	17.07	17.55	17.58	18.05	18.61
12H	4H	15.83	16.46	16.31	16.94	17.42	15.83	16.46	16.31	16.94	17.42
	6H	16.49	17.03	17.01	17.54	18.03	16.49	17.03	17.01	17.54	18.03
	8H	16.88	17.36	17.39	17.85	18.42	16.88	17.36	17.39	17.85	18.42