

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: P865986

Luminaire Tested: PRLX-2001-M-930-35L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-35L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

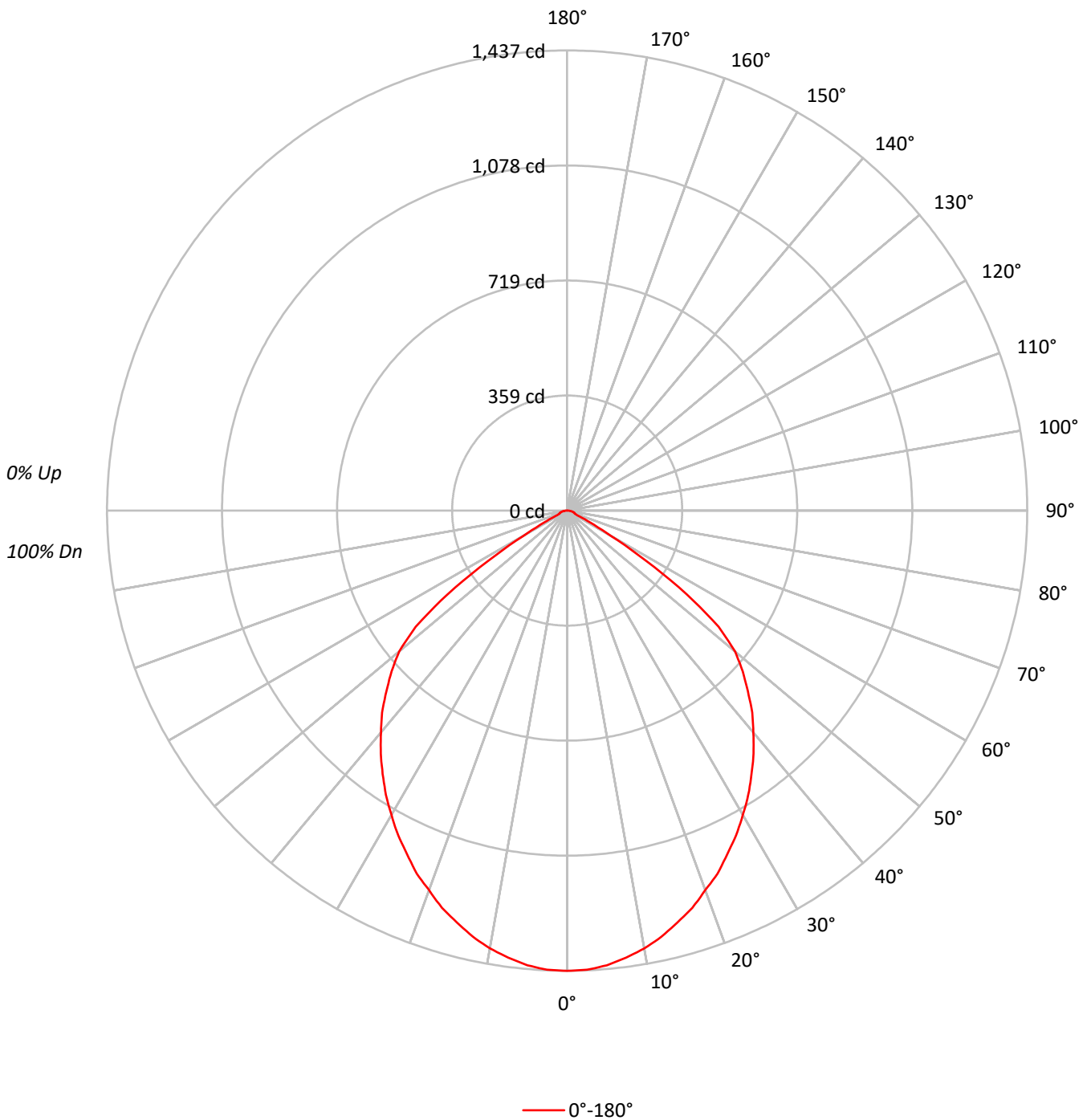
Lumens per Lamp: N/A
Luminaire Lumens: 2776.7 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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

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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	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	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12197
5°	12140
10°	11959
15°	11695
20°	11390
25°	11079
30°	10754
35°	10405
40°	10023
45°	9574
50°	9033
55°	6763
60°	2670
65°	729
70°	623
75°	672
80°	728
85°	721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	4.9
10°-20°	375.1	13.5
20°-30°	545.4	19.6
30°-40°	628.1	22.6
40°-50°	615.6	22.2
50°-60°	391.1	14.1
60°-70°	57.0	2.1
70°-80°	21.5	0.8
80°-90°	8.1	0.3
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°	1055.3	38.0
0°-40°	1683.4	60.6
0°-60°	2690.1	96.9
0°-90°	2776.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1437	
5°	1425	135
15°	1331	375
25°	1183	545
35°	1004	628
45°	798	616
55°	457	391
65°	36	57
75°	20	22
85°	7	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1437.3
2.5°	1435.4
5°	1425.2
7.5°	1408.4
10°	1387.9
12.5°	1362.8
15°	1331.2
17.5°	1300.4
20°	1261.3
22.5°	1226.9
25°	1183.2
27.5°	1143.1
30°	1097.5
32.5°	1052.8
35°	1004.4
37.5°	956.0
40°	904.8
42.5°	855.5
45°	797.8
47.5°	743.8
50°	684.2
52.5°	595.8
55°	457.1
57.5°	291.4
60°	157.3
62.5°	79.1
65°	36.3
67.5°	26.1
70°	25.1
72.5°	23.3
75°	20.5
77.5°	17.7
80°	14.9
82.5°	11.2
85°	7.4
87.5°	3.7
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	16.00	17.40	16.36	17.71	18.03	16.00	17.40	16.36	17.71	18.03
	3H	15.93	17.16	16.31	17.49	17.86	15.93	17.16	16.31	17.49	17.86
	4H	15.90	17.05	16.31	17.40	17.78	15.90	17.05	16.31	17.40	17.78
	6H	15.88	16.93	16.30	17.30	17.70	15.88	16.93	16.30	17.30	17.70
	8H	15.87	16.86	16.30	17.25	17.66	15.87	16.86	16.30	17.25	17.66
	12H	15.85	16.80	16.28	17.18	17.61	15.85	16.80	16.28	17.18	17.61
4H	2H	15.84	16.98	16.24	17.33	17.72	15.84	16.98	16.24	17.33	17.72
	3H	15.80	16.72	16.21	17.13	17.53	15.80	16.72	16.21	17.13	17.53
	4H	15.79	16.61	16.22	17.03	17.47	15.79	16.61	16.22	17.03	17.47
	6H	15.80	16.51	16.26	16.95	17.42	15.80	16.51	16.26	16.95	17.42
	8H	15.79	16.45	16.26	16.90	17.37	15.79	16.45	16.26	16.90	17.37
	12H	15.78	16.37	16.27	16.85	17.33	15.78	16.37	16.27	16.85	17.33
8H	4H	15.70	16.36	16.16	16.81	17.28	15.70	16.36	16.16	16.81	17.28
	6H	15.72	16.26	16.22	16.76	17.24	15.72	16.26	16.22	16.76	17.24
	8H	15.72	16.22	16.24	16.73	17.22	15.72	16.22	16.24	16.73	17.22
	12H	15.73	16.18	16.25	16.67	17.24	15.73	16.18	16.25	16.67	17.24
12H	4H	15.66	16.25	16.14	16.73	17.20	15.66	16.25	16.14	16.73	17.20
	6H	15.67	16.17	16.19	16.68	17.17	15.67	16.17	16.19	16.68	17.17
	8H	15.70	16.15	16.21	16.64	17.21	15.70	16.15	16.21	16.64	17.21