

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: P866304

Luminaire Tested: PRLX-2002-M-935-35L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866304
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: Pentalux
Catalog Number: PRLX-2002-M-935-35L-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 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

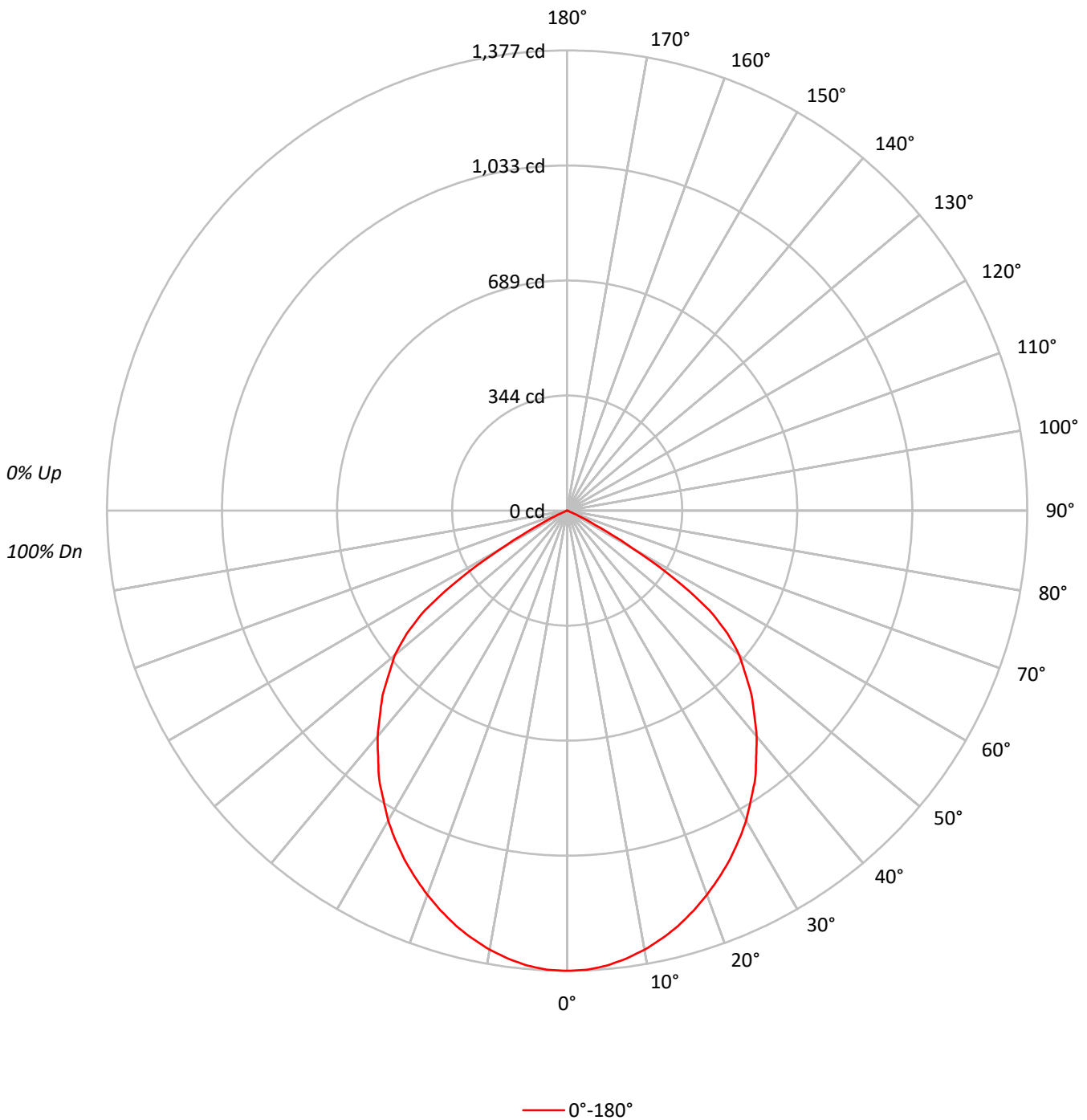
Lumens per Lamp: N/A
Luminaire Lumens: 2740.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P866304

CATALOG NUMBER: PRLX-2002-M-935-35L-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°	10956
5°	10915
10°	10780
15°	10592
20°	10357
25°	10112
30°	9842
35°	9529
40°	9163
45°	8784
50°	8322
55°	7206
60°	3687
65°	715
70°	65
75°	86
80°	87
85°	82

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8784 cd/sqm

TEST NUMBER: P866304

CATALOG NUMBER: PRLX-2002-M-935-35L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	4.7
10°-20°	362.1	13.2
20°-30°	530.2	19.3
30°-40°	611.8	22.3
40°-50°	599.9	21.9
50°-60°	435.9	15.9
60°-70°	66.8	2.4
70°-80°	2.6	0.1
80°-90°	1.3	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°	1021.7	37.3
0°-40°	1633.5	59.6
0°-60°	2669.3	97.4
0°-90°	2740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1377	
5°	1367	129
15°	1286	362
25°	1152	530
35°	981	612
45°	781	600
55°	520	436
65°	38	67
75°	3	3
85°	1	1
90°	0	

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CATALOG NUMBER: PRLX-2002-M-935-35L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1377.1
2.5°	1375.2
5°	1366.7
7.5°	1352.4
10°	1334.4
12.5°	1311.6
15°	1286.0
17.5°	1255.6
20°	1223.3
22.5°	1188.1
25°	1152.0
27.5°	1112.2
30°	1071.3
32.5°	1023.8
35°	981.1
37.5°	928.9
40°	882.3
42.5°	829.1
45°	780.7
47.5°	722.8
50°	672.4
52.5°	605.0
55°	519.5
57.5°	383.7
60°	231.7
62.5°	110.2
65°	38.0
67.5°	9.5
70°	2.8
72.5°	2.8
75°	2.8
77.5°	1.9
80°	1.9
82.5°	1.9
85°	0.9
87.5°	0.9
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	17.75	19.17	18.12	19.48	19.79	17.75	19.17	18.12	19.48	19.79
	3H	17.63	18.88	18.01	19.21	19.57	17.63	18.88	18.01	19.21	19.57
	4H	17.57	18.72	17.97	19.07	19.45	17.57	18.72	17.97	19.07	19.45
	6H	17.50	18.55	17.91	18.92	19.32	17.50	18.55	17.91	18.92	19.32
	8H	17.46	18.46	17.89	18.85	19.25	17.46	18.46	17.89	18.85	19.25
	12H	17.42	18.37	17.85	18.76	19.19	17.42	18.37	17.85	18.76	19.19
4H	2H	17.59	18.74	17.99	19.09	19.47	17.59	18.74	17.99	19.09	19.47
	3H	17.48	18.40	17.89	18.80	19.21	17.48	18.40	17.89	18.80	19.21
	4H	17.39	18.22	17.83	18.63	19.08	17.39	18.22	17.83	18.63	19.08
	6H	17.32	18.03	17.78	18.47	18.94	17.32	18.03	17.78	18.47	18.94
	8H	17.26	17.92	17.73	18.37	18.84	17.26	17.92	17.73	18.37	18.84
	12H	17.22	17.80	17.70	18.29	18.76	17.22	17.80	17.70	18.29	18.76
8H	4H	17.26	17.92	17.73	18.37	18.84	17.26	17.92	17.73	18.37	18.84
	6H	17.16	17.70	17.66	18.20	18.68	17.16	17.70	17.66	18.20	18.68
	8H	17.09	17.59	17.61	18.10	18.59	17.09	17.59	17.61	18.10	18.59
	12H	17.04	17.49	17.56	17.98	18.55	17.04	17.49	17.56	17.98	18.55
12H	4H	17.22	17.80	17.70	18.29	18.76	17.22	17.80	17.70	18.29	18.76
	6H	17.09	17.59	17.61	18.10	18.59	17.09	17.59	17.61	18.10	18.59
	8H	17.04	17.49	17.56	17.98	18.55	17.04	17.49	17.56	17.98	18.55