

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: P866301

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-35L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

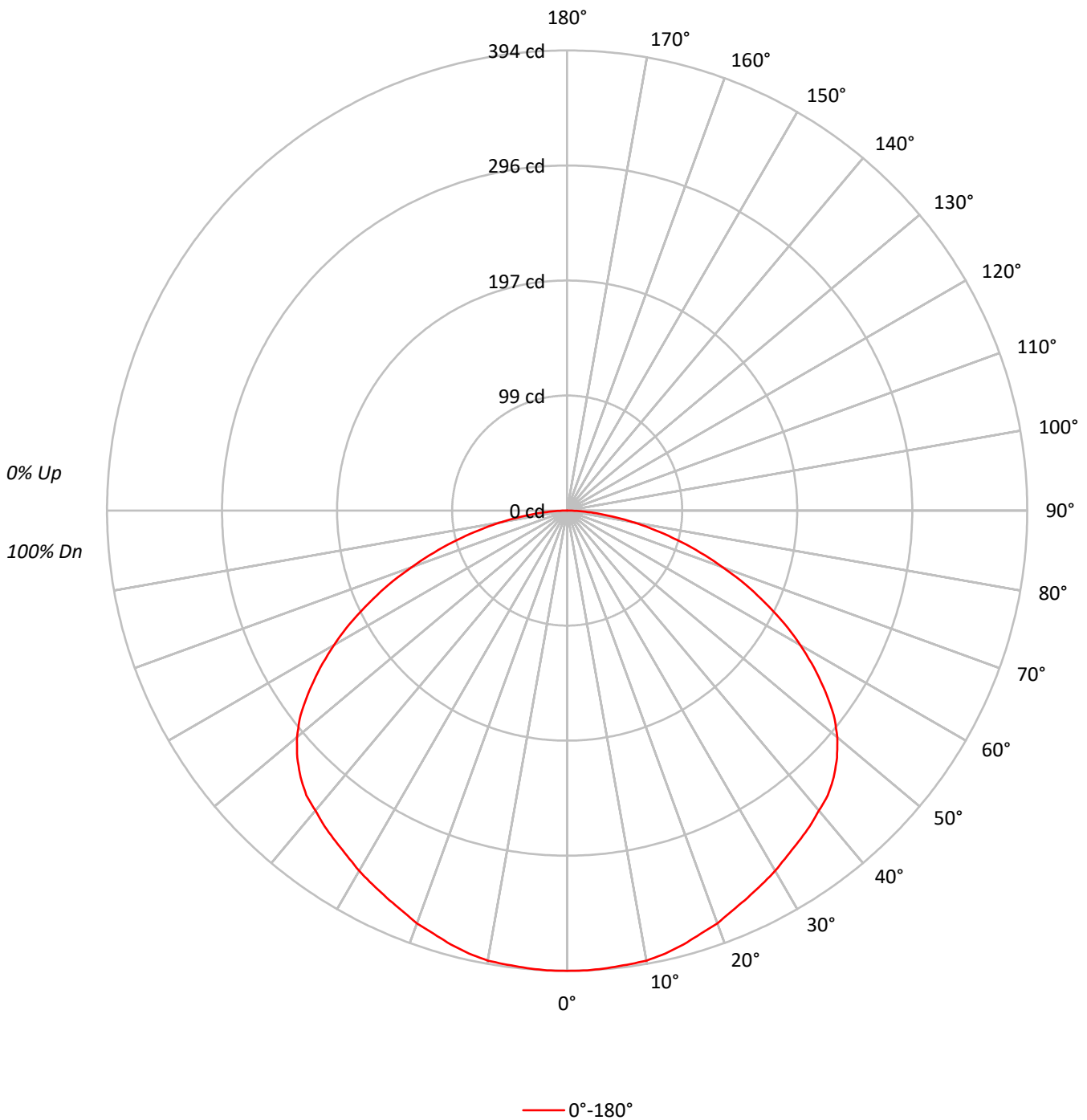
Lumens per Lamp: N/A
Luminaire Lumens: 1337.4 lumens
Efficiency: N/A
Efficacy: 44.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: P866301

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

Luminous Intensity Polar Plot





TEST NUMBER: P866301

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

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3135
5°	3140
10°	3161
15°	3168
20°	3184
25°	3210
30°	3272
35°	3358
40°	3482
45°	3633
50°	3738
55°	3741
60°	3672
65°	3522
70°	3291
75°	3006
80°	2611
85°	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3761 cd/sqm

TEST NUMBER: P866301

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	2.8
10°-20°	108.7	8.1
20°-30°	169.0	12.6
30°-40°	216.9	16.2
40°-50°	248.5	18.6
50°-60°	240.4	18.0
60°-70°	185.2	13.8
70°-80°	103.8	7.8
80°-90°	27.4	2.0
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°	315.2	23.6
0°-40°	532.1	39.8
0°-60°	1021.1	76.3
0°-90°	1337.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	394	
5°	393	37
15°	385	109
25°	366	169
35°	346	217
45°	323	249
55°	270	240
65°	187	185
75°	98	104
85°	23	27
90°	0	

TEST NUMBER: P866301

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	394.1
2.5°	394.1
5°	393.2
7.5°	392.2
10°	391.3
12.5°	388.4
15°	384.6
17.5°	379.9
20°	376.1
22.5°	370.4
25°	365.7
27.5°	360.9
30°	356.2
32.5°	350.5
35°	345.7
37.5°	341.0
40°	335.3
42.5°	330.5
45°	322.9
47.5°	313.4
50°	302.0
52.5°	287.8
55°	269.7
57.5°	250.7
60°	230.8
62.5°	209.9
65°	187.1
67.5°	165.3
70°	141.5
72.5°	119.7
75°	97.8
77.5°	76.9
80°	57.0
82.5°	38.9
85°	22.8
87.5°	10.4
90°	0.0



TEST NUMBER: P866301
 CATALOG NUMBER: PRLX-2002-M-935-35L-G-U-S-X-X-BRSS-X

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	17.08	18.79	17.45	19.10	19.42	17.08	18.79	17.45	19.10	19.42
	3H	18.90	20.44	19.27	20.76	21.12	18.90	20.44	19.27	20.76	21.12
	4H	19.55	21.00	19.94	21.35	21.72	19.55	21.00	19.94	21.35	21.72
	6H	20.01	21.36	20.42	21.73	22.12	20.01	21.36	20.42	21.73	22.12
	8H	20.15	21.44	20.57	21.83	22.23	20.15	21.44	20.57	21.83	22.23
	12H	20.24	21.48	20.67	21.86	22.29	20.24	21.48	20.67	21.86	22.29
4H	2H	17.74	19.19	18.13	19.54	19.91	17.74	19.19	18.13	19.54	19.91
	3H	19.76	20.98	20.17	21.38	21.78	19.76	20.98	20.17	21.38	21.78
	4H	20.53	21.64	20.96	22.06	22.49	20.53	21.64	20.96	22.06	22.49
	6H	21.12	22.09	21.57	22.53	22.98	21.12	22.09	21.57	22.53	22.98
	8H	21.30	22.21	21.76	22.65	23.12	21.30	22.21	21.76	22.65	23.12
	12H	21.43	22.25	21.91	22.72	23.19	21.43	22.25	21.91	22.72	23.19
8H	4H	20.84	21.75	21.30	22.20	22.66	20.84	21.75	21.30	22.20	22.66
	6H	21.54	22.30	22.03	22.79	23.26	21.54	22.30	22.03	22.79	23.26
	8H	21.79	22.47	22.30	22.98	23.46	21.79	22.47	22.30	22.98	23.46
	12H	21.98	22.58	22.49	23.07	23.63	21.98	22.58	22.49	23.07	23.63
12H	4H	20.88	21.70	21.36	22.17	22.64	20.88	21.70	21.36	22.17	22.64
	6H	21.59	22.27	22.10	22.78	23.26	21.59	22.27	22.10	22.78	23.26
	8H	21.90	22.50	22.40	22.99	23.55	21.90	22.50	22.40	22.99	23.55