

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: P866108

Luminaire Tested: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

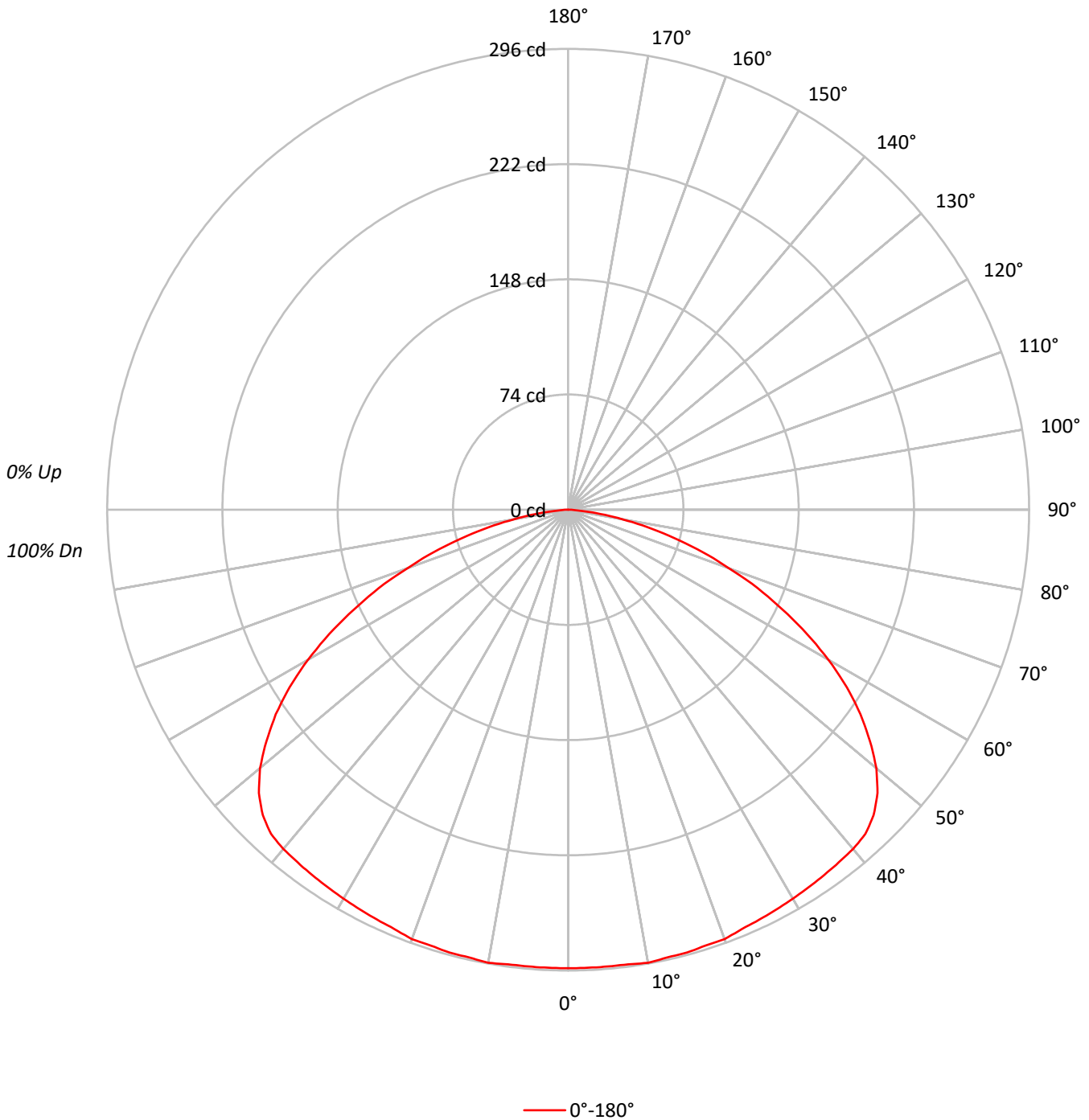
Lumens per Lamp: N/A
Luminaire Lumens: 1081.6 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866108

CATALOG NUMBER: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866108

CATALOG NUMBER: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2499
5°	2509
10°	2546
15°	2587
20°	2650
25°	2720
30°	2827
35°	2968
40°	3152
45°	3329
50°	3410
55°	3391
60°	3276
65°	3048
70°	2719
75°	2308
80°	1720
85°	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3410 cd/sqm

TEST NUMBER: P866108

CATALOG NUMBER: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	2.6
10°-20°	83.4	7.7
20°-30°	134.5	12.4
30°-40°	179.9	16.6
40°-50°	212.8	19.7
50°-60°	203.8	18.8
60°-70°	150.3	13.9
70°-80°	75.2	7.0
80°-90°	13.5	1.2
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°	246.0	22.7
0°-40°	425.9	39.4
0°-60°	842.6	77.9
0°-90°	1081.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	294	
5°	294	28
15°	294	83
25°	290	134
35°	286	180
45°	277	213
55°	229	204
65°	152	150
75°	70	75
85°	9	14
90°	0	

TEST NUMBER: P866108

CATALOG NUMBER: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	294.5
2.5°	294.5
5°	294.5
7.5°	294.5
10°	295.5
12.5°	294.5
15°	294.5
17.5°	293.5
20°	293.5
22.5°	291.5
25°	290.5
27.5°	289.5
30°	288.5
32.5°	287.5
35°	286.5
37.5°	285.5
40°	284.5
42.5°	282.5
45°	277.4
47.5°	269.4
50°	258.3
52.5°	244.3
55°	229.2
57.5°	212.1
60°	193.0
62.5°	172.9
65°	151.8
67.5°	131.7
70°	109.6
72.5°	90.5
75°	70.4
77.5°	52.3
80°	35.2
82.5°	21.1
85°	9.0
87.5°	2.0
90°	0.0

TEST NUMBER: P866108

CATALOG NUMBER: PRLX-2001-M-940-35L-G-U-S-X-X-BLAK-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	16.88	18.58	17.25	18.90	19.21	16.88	18.58	17.25	18.90	19.21
	3H	18.50	20.03	18.87	20.36	20.72	18.50	20.03	18.87	20.36	20.72
	4H	19.02	20.47	19.41	20.81	21.19	19.02	20.47	19.41	20.81	21.19
	6H	19.32	20.66	19.73	21.03	21.42	19.32	20.66	19.73	21.03	21.42
	8H	19.38	20.66	19.80	21.05	21.45	19.38	20.66	19.80	21.05	21.45
	12H	19.40	20.63	19.82	21.01	21.44	19.40	20.63	19.82	21.01	21.44
4H	2H	17.48	18.93	17.88	19.28	19.65	17.48	18.93	17.88	19.28	19.65
	3H	19.29	20.51	19.70	20.90	21.30	19.29	20.51	19.70	20.90	21.30
	4H	19.92	21.02	20.35	21.43	21.86	19.92	21.02	20.35	21.43	21.86
	6H	20.32	21.27	20.77	21.71	22.17	20.32	21.27	20.77	21.71	22.17
	8H	20.40	21.30	20.86	21.74	22.20	20.40	21.30	20.86	21.74	22.20
	12H	20.44	21.24	20.92	21.72	22.19	20.44	21.24	20.92	21.72	22.19
8H	4H	20.16	21.05	20.62	21.50	21.96	20.16	21.05	20.62	21.50	21.96
	6H	20.63	21.37	21.12	21.86	22.33	20.63	21.37	21.12	21.86	22.33
	8H	20.75	21.41	21.25	21.92	22.40	20.75	21.41	21.25	21.92	22.40
	12H	20.81	21.40	21.31	21.89	22.45	20.81	21.40	21.31	21.89	22.45
12H	4H	20.17	20.98	20.65	21.45	21.92	20.17	20.98	20.65	21.45	21.92
	6H	20.64	21.31	21.15	21.81	22.30	20.64	21.31	21.15	21.81	22.30
	8H	20.80	21.39	21.31	21.88	22.44	20.80	21.39	21.31	21.88	22.44