

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: P866366

Luminaire Tested: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

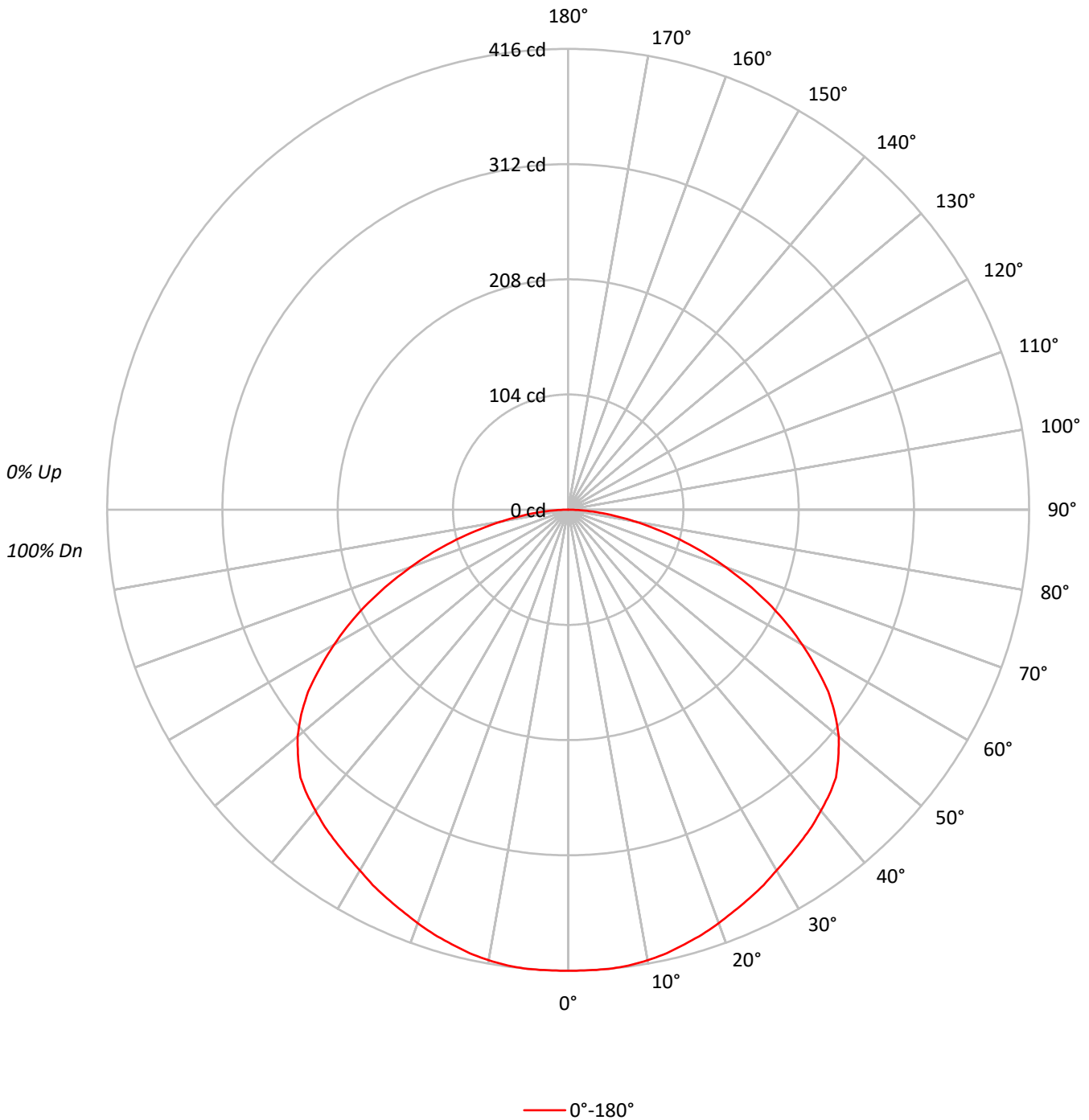
Lumens per Lamp: N/A
Luminaire Lumens: 1416.3 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: P866366

CATALOG NUMBER: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866366

CATALOG NUMBER: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-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	59	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	44	38	51	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	31
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	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°	3311
5°	3324
10°	3337
15°	3345
20°	3362
25°	3397
30°	3453
35°	3554
40°	3685
45°	3846
50°	3945
55°	3974
60°	3887
65°	3746
70°	3508
75°	3212
80°	2808
85°	2291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3974 cd/sqm

TEST NUMBER: P866366

CATALOG NUMBER: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	2.8
10°-20°	114.8	8.1
20°-30°	178.8	12.6
30°-40°	229.5	16.2
40°-50°	262.6	18.5
50°-60°	254.4	18.0
60°-70°	196.4	13.9
70°-80°	110.6	7.8
80°-90°	29.7	2.1
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°	333.2	23.5
0°-40°	562.8	39.7
0°-60°	1079.7	76.2
0°-90°	1416.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	416	
5°	416	40
15°	406	115
25°	387	179
35°	366	230
45°	342	263
55°	286	254
65°	199	196
75°	104	111
85°	25	30
90°	0	

TEST NUMBER: P866366

CATALOG NUMBER: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	416.2
2.5°	416.2
5°	416.2
7.5°	415.2
10°	413.1
12.5°	410.1
15°	406.1
17.5°	402.1
20°	397.1
22.5°	392.0
25°	387.0
27.5°	382.0
30°	375.9
32.5°	370.9
35°	365.9
37.5°	360.9
40°	354.8
42.5°	348.8
45°	341.8
47.5°	330.7
50°	318.7
52.5°	303.6
55°	286.5
57.5°	265.4
60°	244.3
62.5°	222.2
65°	199.0
67.5°	174.9
70°	150.8
72.5°	127.7
75°	104.5
77.5°	81.4
80°	61.3
82.5°	42.2
85°	25.1
87.5°	11.1
90°	0.0



TEST NUMBER: P866366
 CATALOG NUMBER: PRLX-2002-M-940-35L-G-U-S-X-X-GREY-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	17.28	18.98	17.64	19.30	19.61	17.28	18.98	17.64	19.30	19.61
	3H	19.10	20.64	19.47	20.97	21.33	19.10	20.64	19.47	20.97	21.33
	4H	19.76	21.22	20.16	21.56	21.94	19.76	21.22	20.16	21.56	21.94
	6H	20.22	21.58	20.63	21.94	22.33	20.22	21.58	20.63	21.94	22.33
	8H	20.37	21.67	20.79	22.05	22.45	20.37	21.67	20.79	22.05	22.45
	12H	20.46	21.71	20.89	22.09	22.52	20.46	21.71	20.89	22.09	22.52
4H	2H	17.94	19.40	18.34	19.74	20.12	17.94	19.40	18.34	19.74	20.12
	3H	19.97	21.19	20.38	21.59	21.99	19.97	21.19	20.38	21.59	21.99
	4H	20.75	21.87	21.18	22.28	22.71	20.75	21.87	21.18	22.28	22.71
	6H	21.34	22.32	21.79	22.75	23.21	21.34	22.32	21.79	22.75	23.21
	8H	21.53	22.45	21.99	22.89	23.35	21.53	22.45	21.99	22.89	23.35
	12H	21.67	22.49	22.15	22.96	23.43	21.67	22.49	22.15	22.96	23.43
8H	4H	21.07	21.98	21.52	22.42	22.88	21.07	21.98	21.52	22.42	22.88
	6H	21.77	22.53	22.26	23.01	23.49	21.77	22.53	22.26	23.01	23.49
	8H	22.03	22.71	22.53	23.21	23.70	22.03	22.71	22.53	23.21	23.70
	12H	22.23	22.83	22.74	23.32	23.88	22.23	22.83	22.74	23.32	23.88
12H	4H	21.10	21.92	21.58	22.40	22.86	21.10	21.92	21.58	22.40	22.86
	6H	21.82	22.51	22.33	23.01	23.49	21.82	22.51	22.33	23.01	23.49
	8H	22.14	22.74	22.64	23.23	23.79	22.14	22.74	22.64	23.23	23.79