

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: P866388

Luminaire Tested: PRLX-2002-M-940-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-65L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

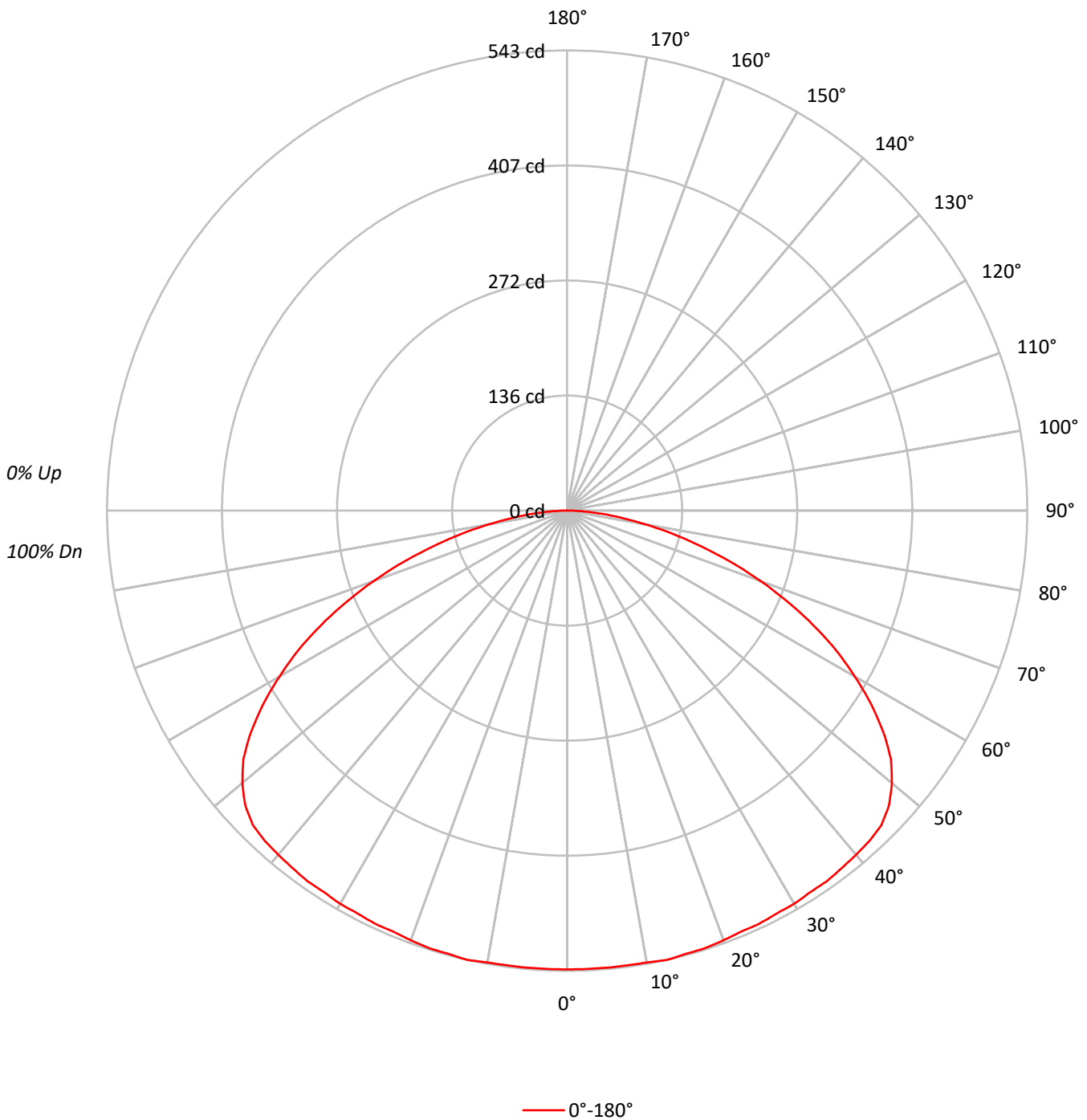
Lumens per Lamp: N/A
Luminaire Lumens: 2132.7 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: P866388

CATALOG NUMBER: PRLX-2002-M-940-65L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866388

CATALOG NUMBER: PRLX-2002-M-940-65L-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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4307
5°	4324
10°	4374
15°	4459
20°	4568
25°	4719
30°	4922
35°	5185
40°	5506
45°	5902
50°	6192
55°	6318
60°	6237
65°	6045
70°	5645
75°	5050
80°	4275
85°	3405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 6318 cd/sqm

TEST NUMBER: P866388

CATALOG NUMBER: PRLX-2002-M-940-65L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	2.4
10°-20°	153.5	7.2
20°-30°	248.6	11.7
30°-40°	334.9	15.7
40°-50°	403.1	18.9
50°-60°	404.8	19.0
60°-70°	316.4	14.8
70°-80°	175.2	8.2
80°-90°	44.7	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°	453.8	21.3
0°-40°	788.7	37.0
0°-60°	1596.5	74.9
0°-90°	2132.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	541	
5°	541	52
15°	541	153
25°	538	249
35°	534	335
45°	525	403
55°	456	405
65°	321	316
75°	164	175
85°	37	45
90°	0	

TEST NUMBER: P866388

CATALOG NUMBER: PRLX-2002-M-940-65L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	541.4
2.5°	541.4
5°	541.4
7.5°	541.4
10°	541.4
12.5°	543.2
15°	541.4
17.5°	541.4
20°	539.5
22.5°	537.6
25°	537.6
27.5°	535.8
30°	535.8
32.5°	533.9
35°	533.9
37.5°	532.0
40°	530.2
42.5°	528.3
45°	524.6
47.5°	515.2
50°	500.3
52.5°	481.6
55°	455.5
57.5°	425.6
60°	392.0
62.5°	358.4
65°	321.1
67.5°	281.9
70°	242.7
72.5°	203.5
75°	164.3
77.5°	128.8
80°	93.3
82.5°	63.5
85°	37.3
87.5°	16.8
90°	0.0

TEST NUMBER: P866388

CATALOG NUMBER: PRLX-2002-M-940-65L-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	19.10	20.83	19.46	21.15	21.46	19.10	20.83	19.46	21.15	21.46
	3H	20.93	22.51	21.31	22.83	23.19	20.93	22.51	21.31	22.83	23.19
	4H	21.57	23.06	21.97	23.41	23.78	21.57	23.06	21.97	23.41	23.78
	6H	22.02	23.40	22.43	23.76	24.15	22.02	23.40	22.43	23.76	24.15
	8H	22.15	23.47	22.57	23.86	24.25	22.15	23.47	22.57	23.86	24.25
	12H	22.23	23.50	22.66	23.88	24.31	22.23	23.50	22.66	23.88	24.31
4H	2H	19.77	21.26	20.17	21.60	21.98	19.77	21.26	20.17	21.60	21.98
	3H	21.81	23.06	22.22	23.46	23.86	21.81	23.06	22.22	23.46	23.86
	4H	22.57	23.71	23.00	24.12	24.55	22.57	23.71	23.00	24.12	24.55
	6H	23.13	24.13	23.58	24.57	25.02	23.13	24.13	23.58	24.57	25.02
	8H	23.30	24.24	23.76	24.68	25.14	23.30	24.24	23.76	24.68	25.14
	12H	23.42	24.26	23.90	24.74	25.20	23.42	24.26	23.90	24.74	25.20
8H	4H	22.88	23.81	23.33	24.25	24.71	22.88	23.81	23.33	24.25	24.71
	6H	23.54	24.32	24.03	24.81	25.28	23.54	24.32	24.03	24.81	25.28
	8H	23.78	24.48	24.28	24.98	25.46	23.78	24.48	24.28	24.98	25.46
	12H	23.96	24.58	24.46	25.07	25.62	23.96	24.58	24.46	25.07	25.62
12H	4H	22.91	23.75	23.39	24.23	24.69	22.91	23.75	23.39	24.23	24.69
	6H	23.59	24.29	24.10	24.79	25.28	23.59	24.29	24.10	24.79	25.28
	8H	23.88	24.50	24.38	24.99	25.54	23.88	24.50	24.38	24.99	25.54