

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: P866650

Luminaire Tested: PRLX-2004-M-940-65L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-940-65L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

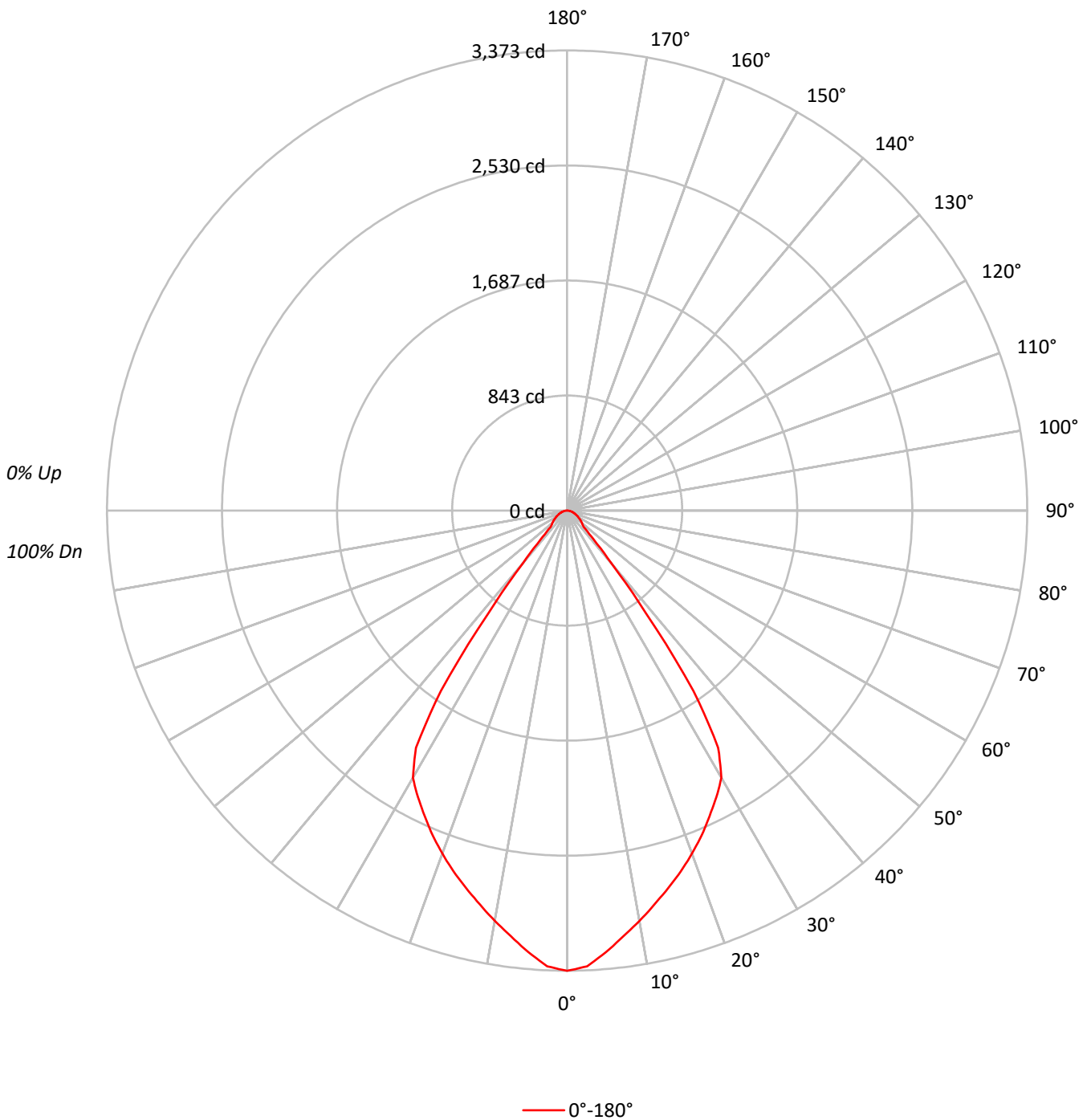
Lumens per Lamp: N/A
Luminaire Lumens: 3573.7 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866650

CATALOG NUMBER: PRLX-2004-M-940-65L-L-U-S-X-X-GREY-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	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	87	81	76	93	85	80	76	83	78	75		81	77	74		79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	62	61
7	80	70	64	59	79	70	63	59	68	63	59		67	62	58		66	61	58	57
8	76	66	59	55	75	65	59	55	64	59	55		63	58	54		62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48		56	51	47		55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26837
5°	25956
10°	24673
15°	23587
20°	22648
25°	21680
30°	20768
35°	15665
40°	5216
45°	1932
50°	1756
55°	1605
60°	1456
65°	1335
70°	1258
75°	1205
80°	1113
85°	1022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	8.5
10°-20°	806.5	22.6
20°-30°	1138.0	31.8
30°-40°	919.7	25.7
40°-50°	176.0	4.9
50°-60°	104.0	2.9
60°-70°	71.1	2.0
70°-80°	41.4	1.2
80°-90°	13.0	0.4
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°	2248.5	62.9
0°-40°	3168.2	88.7
0°-60°	3448.3	96.5
0°-90°	3573.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3573.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3373	
5°	3250	304
15°	2864	807
25°	2470	1138
35°	1613	920
45°	172	176
55°	116	104
65°	71	71
75°	39	41
85°	11	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3373.3
2.5°	3343.5
5°	3250.1
7.5°	3147.4
10°	3054.1
12.5°	2957.0
15°	2863.7
17.5°	2772.2
20°	2675.1
22.5°	2576.2
25°	2469.8
27.5°	2369.0
30°	2260.7
32.5°	2061.0
35°	1612.9
37.5°	952.1
40°	502.2
42.5°	281.9
45°	171.7
47.5°	151.2
50°	141.9
52.5°	128.8
55°	115.7
57.5°	104.5
60°	91.5
62.5°	82.1
65°	70.9
67.5°	61.6
70°	54.1
72.5°	46.7
75°	39.2
77.5°	31.7
80°	24.3
82.5°	18.7
85°	11.2
87.5°	5.6
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	8.40	9.44	8.76	9.76	10.07	8.40	9.44	8.76	9.76	10.07
	3H	9.86	10.78	10.24	11.12	11.49	9.86	10.78	10.24	11.12	11.49
	4H	10.46	11.32	10.87	11.68	12.07	10.46	11.32	10.87	11.68	12.07
	6H	10.92	11.71	11.34	12.08	12.48	10.92	11.71	11.34	12.08	12.48
	8H	11.09	11.83	11.52	12.22	12.63	11.09	11.83	11.52	12.22	12.63
	12H	11.19	11.90	11.63	12.29	12.72	11.19	11.90	11.63	12.29	12.72
4H	2H	8.81	9.67	9.22	10.03	10.42	8.81	9.67	9.22	10.03	10.42
	3H	10.51	11.22	10.93	11.63	12.03	10.51	11.22	10.93	11.63	12.03
	4H	11.25	11.88	11.69	12.30	12.75	11.25	11.88	11.69	12.30	12.75
	6H	11.84	12.38	12.31	12.83	13.30	11.84	12.38	12.31	12.83	13.30
	8H	12.06	12.56	12.54	13.01	13.49	12.06	12.56	12.54	13.01	13.49
	12H	12.21	12.65	12.70	13.14	13.61	12.21	12.65	12.70	13.14	13.61
8H	4H	11.48	11.98	11.95	12.43	12.91	11.48	11.98	11.95	12.43	12.91
	6H	12.21	12.61	12.71	13.11	13.59	12.21	12.61	12.71	13.11	13.59
	8H	12.52	12.87	13.05	13.40	13.89	12.52	12.87	13.05	13.40	13.89
	12H	12.76	13.07	13.28	13.57	14.15	12.76	13.07	13.28	13.57	14.15
12H	4H	11.48	11.92	11.97	12.40	12.88	11.48	11.92	11.97	12.40	12.88
	6H	12.25	12.61	12.78	13.13	13.62	12.25	12.61	12.78	13.13	13.62
	8H	12.62	12.93	13.14	13.43	14.01	12.62	12.93	13.14	13.43	14.01