

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: P866134

Luminaire Tested: PRLX-2001-M-940-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-65L-G-U-S-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

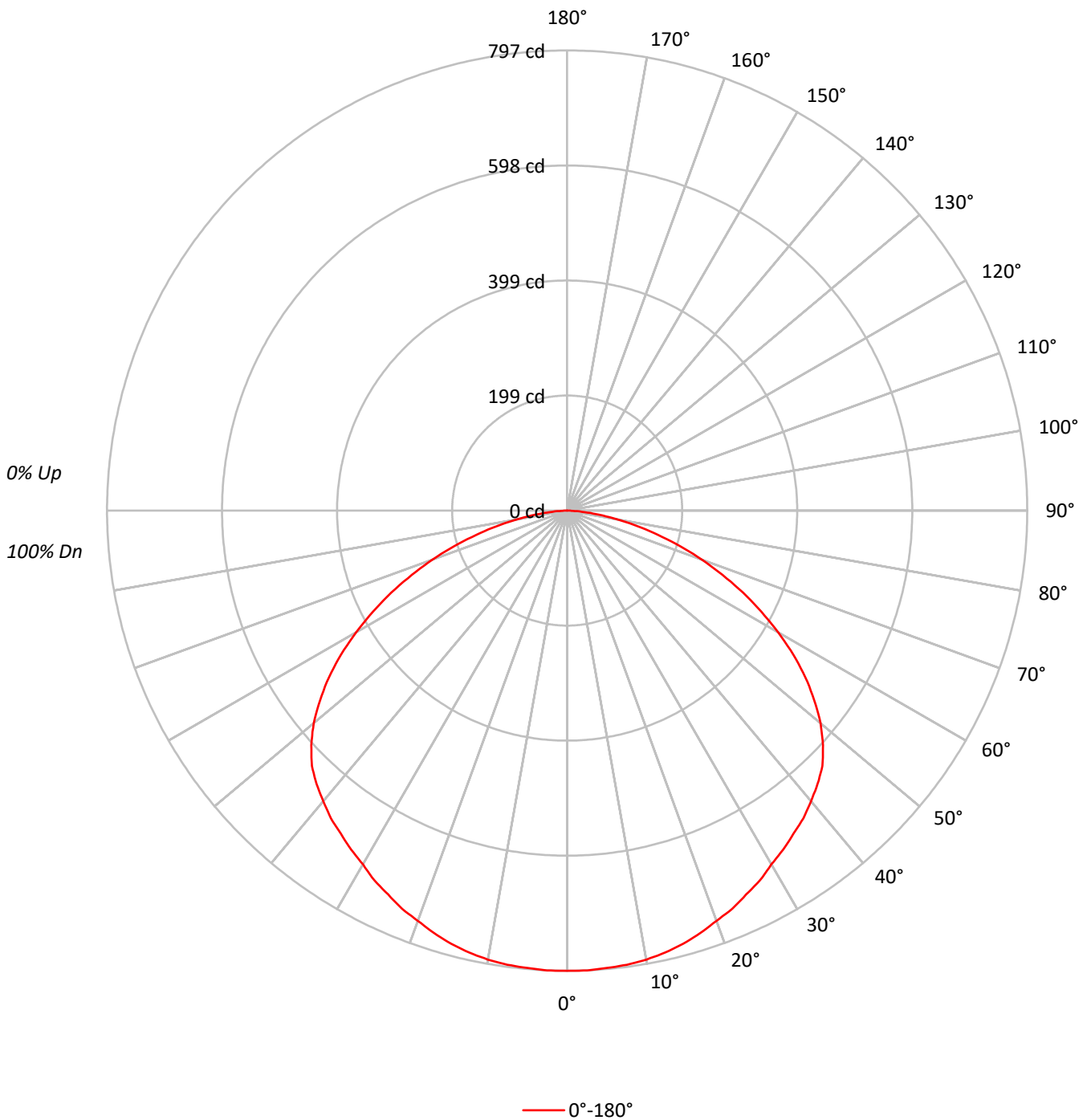
Lumens per Lamp: N/A
Luminaire Lumens: 2535.1 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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

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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6764
5°	6775
10°	6805
15°	6823
20°	6828
25°	6870
30°	6933
35°	7079
40°	7279
45°	7505
50°	7566
55°	7457
60°	7160
65°	6747
70°	6161
75°	5325
80°	4286
85°	2911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.0
10°-20°	219.3	8.6
20°-30°	338.9	13.4
30°-40°	428.8	16.9
40°-50°	480.0	18.9
50°-60°	448.6	17.7
60°-70°	331.7	13.1
70°-80°	174.2	6.9
80°-90°	37.8	1.5
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°	634.0	25.0
0°-40°	1062.7	41.9
0°-60°	1991.3	78.6
0°-90°	2535.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	797	
5°	795	76
15°	777	219
25°	734	339
35°	683	429
45°	625	480
55°	504	449
65°	336	332
75°	162	174
85°	30	38
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	797.1
2.5°	797.1
5°	795.3
7.5°	793.4
10°	789.7
12.5°	784.1
15°	776.6
17.5°	767.3
20°	756.1
22.5°	746.7
25°	733.7
27.5°	722.5
30°	707.5
32.5°	696.3
35°	683.3
37.5°	672.1
40°	657.1
42.5°	642.2
45°	625.4
47.5°	601.1
50°	573.1
52.5°	539.5
55°	504.0
57.5°	464.8
60°	421.9
62.5°	379.0
65°	336.0
67.5°	291.2
70°	248.3
72.5°	205.4
75°	162.4
77.5°	125.1
80°	87.7
82.5°	56.0
85°	29.9
87.5°	9.3
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	19.41	21.08	19.77	21.40	21.71	19.41	21.08	19.77	21.40	21.71
	3H	21.07	22.58	21.45	22.91	23.27	21.07	22.58	21.45	22.91	23.27
	4H	21.63	23.06	22.03	23.40	23.78	21.63	23.06	22.03	23.40	23.78
	6H	21.99	23.31	22.40	23.68	24.07	21.99	23.31	22.40	23.68	24.07
	8H	22.08	23.34	22.51	23.73	24.13	22.08	23.34	22.51	23.73	24.13
	12H	22.13	23.34	22.56	23.72	24.15	22.13	23.34	22.56	23.72	24.15
4H	2H	20.02	21.44	20.42	21.79	22.16	20.02	21.44	20.42	21.79	22.16
	3H	21.89	23.08	22.30	23.48	23.88	21.89	23.08	22.30	23.48	23.88
	4H	22.56	23.64	22.99	24.05	24.48	22.56	23.64	22.99	24.05	24.48
	6H	23.03	23.97	23.48	24.41	24.86	23.03	23.97	23.48	24.41	24.86
	8H	23.15	24.03	23.61	24.47	24.93	23.15	24.03	23.61	24.47	24.93
	12H	23.22	24.01	23.70	24.49	24.95	23.22	24.01	23.70	24.49	24.95
8H	4H	22.82	23.70	23.28	24.14	24.61	22.82	23.70	23.28	24.14	24.61
	6H	23.37	24.11	23.87	24.59	25.07	23.37	24.11	23.87	24.59	25.07
	8H	23.54	24.20	24.05	24.71	25.19	23.54	24.20	24.05	24.71	25.19
	12H	23.66	24.24	24.17	24.73	25.29	23.66	24.24	24.17	24.73	25.29
12H	4H	22.84	23.63	23.32	24.11	24.57	22.84	23.63	23.32	24.11	24.57
	6H	23.40	24.06	23.91	24.57	25.05	23.40	24.06	23.91	24.57	25.05
	8H	23.62	24.20	24.12	24.69	25.25	23.62	24.20	24.12	24.69	25.25