

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: P866138

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-65L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

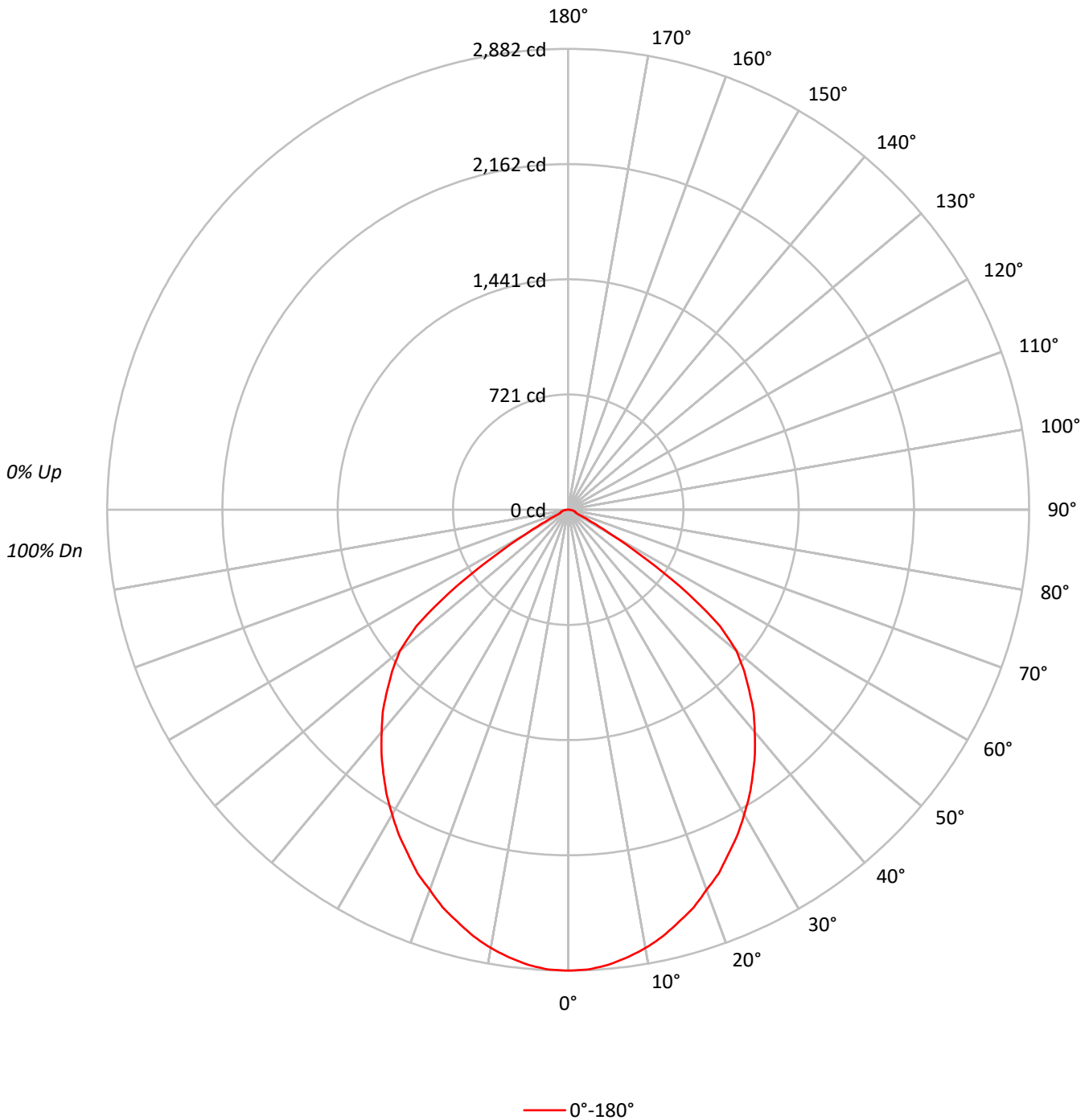
Lumens per Lamp: N/A
Luminaire Lumens: 5568.5 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24460
5°	24347
10°	23984
15°	23453
20°	22843
25°	22216
30°	21567
35°	20867
40°	20100
45°	19200
50°	18114
55°	13561
60°	5355
65°	1462
70°	1250
75°	1348
80°	1461
85°	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	4.9
10°-20°	752.3	13.5
20°-30°	1093.8	19.6
30°-40°	1259.6	22.6
40°-50°	1234.5	22.2
50°-60°	784.3	14.1
60°-70°	114.3	2.1
70°-80°	43.1	0.8
80°-90°	16.3	0.3
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°	2116.4	38.0
0°-40°	3376.1	60.6
0°-60°	5394.8	96.9
0°-90°	5568.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5568.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2882	
5°	2858	270
15°	2670	752
25°	2373	1094
35°	2014	1260
45°	1600	1234
55°	917	784
65°	73	114
75°	41	43
85°	15	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2882.4
2.5°	2878.6
5°	2858.1
7.5°	2824.5
10°	2783.4
12.5°	2733.0
15°	2669.6
17.5°	2607.9
20°	2529.5
22.5°	2460.5
25°	2372.7
27.5°	2292.5
30°	2201.0
32.5°	2111.4
35°	2014.3
37.5°	1917.2
40°	1814.5
42.5°	1715.6
45°	1599.9
47.5°	1491.6
50°	1372.1
52.5°	1194.8
55°	916.6
57.5°	584.3
60°	315.5
62.5°	158.7
65°	72.8
67.5°	52.3
70°	50.4
72.5°	46.7
75°	41.1
77.5°	35.5
80°	29.9
82.5°	22.4
85°	14.9
87.5°	7.5
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	18.41	19.82	18.78	20.13	20.44	18.41	19.82	18.78	20.13	20.44
	3H	18.35	19.58	18.72	19.91	20.27	18.35	19.58	18.72	19.91	20.27
	4H	18.32	19.47	18.72	19.82	20.20	18.32	19.47	18.72	19.82	20.20
	6H	18.30	19.35	18.71	19.72	20.11	18.30	19.35	18.71	19.72	20.11
	8H	18.28	19.28	18.71	19.67	20.07	18.28	19.28	18.71	19.67	20.07
	12H	18.26	19.22	18.70	19.60	20.03	18.26	19.22	18.70	19.60	20.03
4H	2H	18.26	19.40	18.66	19.75	20.13	18.26	19.40	18.66	19.75	20.13
	3H	18.22	19.14	18.63	19.54	19.95	18.22	19.14	18.63	19.54	19.95
	4H	18.21	19.03	18.64	19.45	19.89	18.21	19.03	18.64	19.45	19.89
	6H	18.22	18.93	18.68	19.37	19.84	18.22	18.93	18.68	19.37	19.84
	8H	18.21	18.87	18.67	19.31	19.79	18.21	18.87	18.67	19.31	19.79
	12H	18.20	18.79	18.68	19.27	19.74	18.20	18.79	18.68	19.27	19.74
8H	4H	18.11	18.78	18.58	19.22	19.69	18.11	18.78	18.58	19.22	19.69
	6H	18.13	18.68	18.63	19.18	19.66	18.13	18.68	18.63	19.18	19.66
	8H	18.13	18.63	18.65	19.15	19.64	18.13	18.63	18.65	19.15	19.64
	12H	18.15	18.60	18.66	19.09	19.66	18.15	18.60	18.66	19.09	19.66
12H	4H	18.08	18.66	18.56	19.15	19.62	18.08	18.66	18.56	19.15	19.62
	6H	18.09	18.58	18.61	19.10	19.59	18.09	18.58	18.61	19.10	19.59
	8H	18.12	18.56	18.63	19.06	19.63	18.12	18.56	18.63	19.06	19.63