

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: P866136

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

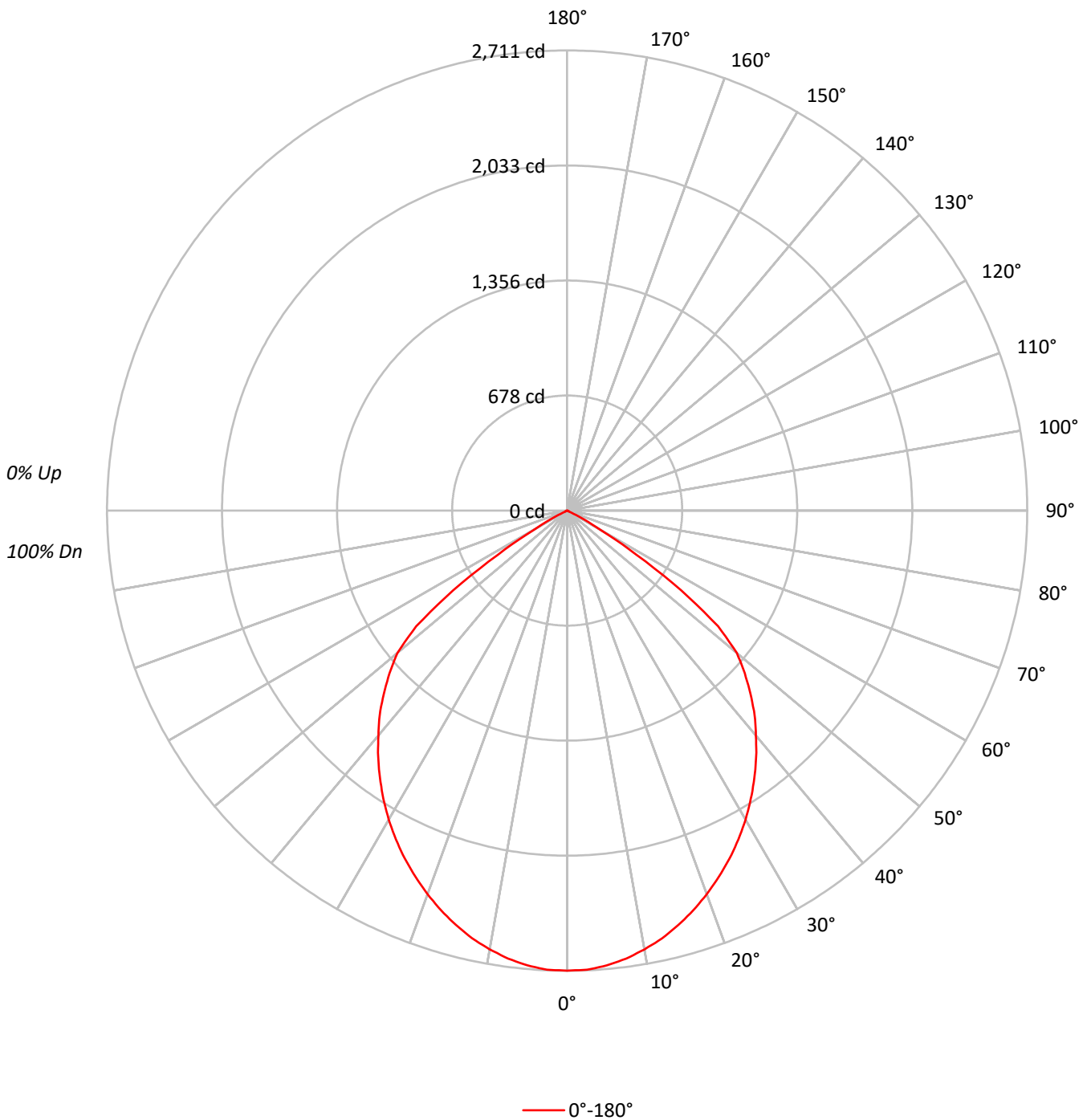
Lumens per Lamp: N/A
Luminaire Lumens: 5156.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23002
5°	22915
10°	22617
15°	22207
20°	21714
25°	21185
30°	20597
35°	19919
40°	19170
45°	18327
50°	17227
55°	12153
60°	3834
65°	263
70°	186
75°	184
80°	181
85°	185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	4.9
10°-20°	712.1	13.8
20°-30°	1041.5	20.2
30°-40°	1202.1	23.3
40°-50°	1176.3	22.8
50°-60°	705.7	13.7
60°-70°	55.0	1.1
70°-80°	6.4	0.1
80°-90°	2.5	0.0
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°	2008.3	38.9
0°-40°	3210.3	62.3
0°-60°	5092.3	98.8
0°-90°	5156.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5156.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2711	
5°	2690	255
15°	2528	712
25°	2263	1041
35°	1923	1202
45°	1527	1176
55°	821	706
65°	13	55
75°	6	6
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2710.6
2.5°	2706.9
5°	2690.1
7.5°	2662.1
10°	2624.7
12.5°	2581.8
15°	2527.7
17.5°	2469.8
20°	2404.5
22.5°	2335.4
25°	2262.6
27.5°	2184.2
30°	2102.0
32.5°	2014.3
35°	1922.8
37.5°	1829.5
40°	1730.5
42.5°	1635.3
45°	1527.1
47.5°	1418.8
50°	1304.9
52.5°	1120.1
55°	821.4
57.5°	483.5
60°	225.9
62.5°	89.6
65°	13.1
67.5°	7.5
70°	7.5
72.5°	7.5
75°	5.6
77.5°	5.6
80°	3.7
82.5°	3.7
85°	1.9
87.5°	1.9
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	17.36	18.73	17.72	19.05	19.36	17.36	18.73	17.72	19.05	19.36
	3H	17.24	18.44	17.62	18.77	19.14	17.24	18.44	17.62	18.77	19.14
	4H	17.17	18.29	17.57	18.64	19.02	17.17	18.29	17.57	18.64	19.02
	6H	17.10	18.12	17.51	18.49	18.88	17.10	18.12	17.51	18.49	18.88
	8H	17.06	18.02	17.49	18.41	18.82	17.06	18.02	17.49	18.41	18.82
	12H	17.01	17.94	17.45	18.32	18.75	17.01	17.94	17.45	18.32	18.75
4H	2H	17.17	18.29	17.57	18.64	19.02	17.17	18.29	17.57	18.64	19.02
	3H	17.05	17.95	17.46	18.35	18.75	17.05	17.95	17.46	18.35	18.75
	4H	16.97	17.76	17.40	18.18	18.62	16.97	17.76	17.40	18.18	18.62
	6H	16.89	17.57	17.35	18.02	18.49	16.89	17.57	17.35	18.02	18.49
	8H	16.83	17.47	17.30	17.92	18.39	16.83	17.47	17.30	17.92	18.39
	12H	16.79	17.35	17.27	17.83	18.31	16.79	17.35	17.27	17.83	18.31
8H	4H	16.83	17.47	17.30	17.92	18.39	16.83	17.47	17.30	17.92	18.39
	6H	16.72	17.25	17.23	17.75	18.23	16.72	17.25	17.23	17.75	18.23
	8H	16.66	17.14	17.18	17.65	18.14	16.66	17.14	17.18	17.65	18.14
	12H	16.61	17.04	17.12	17.53	18.10	16.61	17.04	17.12	17.53	18.10
12H	4H	16.78	17.35	17.27	17.83	18.30	16.78	17.35	17.27	17.83	18.30
	6H	16.66	17.14	17.18	17.65	18.14	16.66	17.14	17.18	17.65	18.14
	8H	16.60	17.04	17.12	17.53	18.10	16.60	17.04	17.12	17.53	18.10