

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: P866071

Luminaire Tested: PRLX-2001-M-935-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-65L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

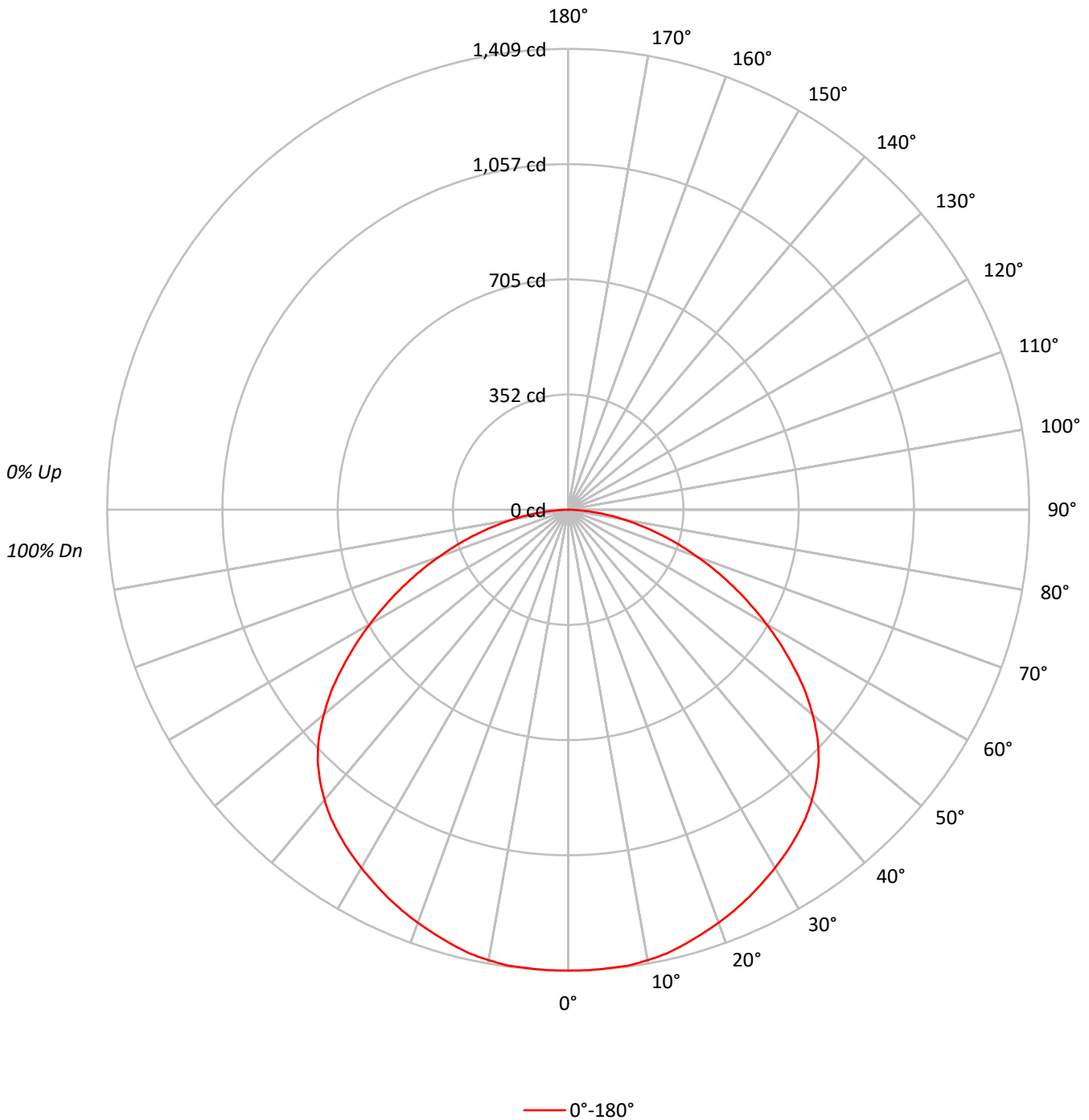
Lumens per Lamp: N/A
Luminaire Lumens: 4418.1 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11959
5°	11990
10°	12052
15°	12087
20°	12137
25°	12238
30°	12393
35°	12608
40°	12837
45°	12997
50°	12877
55°	12474
60°	11884
65°	11192
70°	10371
75°	9541
80°	8449
85°	6874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12997 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.0
10°-20°	388.7	8.8
20°-30°	603.4	13.7
30°-40°	762.1	17.3
40°-50°	832.0	18.8
50°-60°	752.8	17.0
60°-70°	552.4	12.5
70°-80°	308.5	7.0
80°-90°	84.0	1.9
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°	1126.2	25.5
0°-40°	1888.4	42.7
0°-60°	3473.2	78.6
0°-90°	4418.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1409	
5°	1408	134
15°	1376	389
25°	1307	603
35°	1217	762
45°	1083	832
55°	843	753
65°	557	552
75°	291	309
85°	71	84
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1409.3
2.5°	1409.3
5°	1407.5
7.5°	1405.8
10°	1398.7
12.5°	1389.9
15°	1375.8
17.5°	1359.9
20°	1344.0
22.5°	1326.4
25°	1307.0
27.5°	1285.8
30°	1264.7
32.5°	1241.7
35°	1217.0
37.5°	1190.6
40°	1158.8
42.5°	1123.5
45°	1083.0
47.5°	1033.6
50°	975.4
52.5°	913.7
55°	843.1
57.5°	772.5
60°	700.2
62.5°	627.9
65°	557.4
67.5°	488.6
70°	418.0
72.5°	354.5
75°	291.0
77.5°	229.3
80°	172.9
82.5°	119.9
85°	70.6
87.5°	31.7
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	21.02	22.68	21.38	23.00	23.31	21.02	22.68	21.38	23.00	23.31
	3H	22.71	24.22	23.09	24.54	24.90	22.71	24.22	23.09	24.54	24.90
	4H	23.34	24.76	23.74	25.10	25.48	23.34	24.76	23.74	25.10	25.48
	6H	23.79	25.11	24.20	25.47	25.86	23.79	25.11	24.20	25.47	25.86
	8H	23.94	25.19	24.36	25.58	25.98	23.94	25.19	24.36	25.58	25.98
	12H	24.03	25.23	24.46	25.61	26.04	24.03	25.23	24.46	25.61	26.04
4H	2H	21.62	23.04	22.02	23.39	23.76	21.62	23.04	22.02	23.39	23.76
	3H	23.53	24.72	23.94	25.12	25.52	23.53	24.72	23.94	25.12	25.52
	4H	24.29	25.36	24.72	25.78	26.21	24.29	25.36	24.72	25.78	26.21
	6H	24.87	25.81	25.32	26.25	26.70	24.87	25.81	25.32	26.25	26.70
	8H	25.06	25.94	25.52	26.38	26.85	25.06	25.94	25.52	26.38	26.85
	12H	25.19	25.98	25.67	26.46	26.93	25.19	25.98	25.67	26.46	26.93
8H	4H	24.58	25.47	25.04	25.91	26.37	24.58	25.47	25.04	25.91	26.37
	6H	25.28	26.02	25.77	26.50	26.98	25.28	26.02	25.77	26.50	26.98
	8H	25.54	26.20	26.05	26.70	27.19	25.54	26.20	26.05	26.70	27.19
	12H	25.74	26.32	26.25	26.81	27.37	25.74	26.32	26.25	26.81	27.37
12H	4H	24.62	25.41	25.10	25.88	26.35	24.62	25.41	25.10	25.88	26.35
	6H	25.33	25.99	25.84	26.50	26.98	25.33	25.99	25.84	26.50	26.98
	8H	25.65	26.23	26.15	26.72	27.28	25.65	26.23	26.15	26.72	27.28