

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: P866007

Luminaire Tested: PRLX-2001-M-930-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866007
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: Pentalux
Catalog Number: PRLX-2001-M-930-65L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

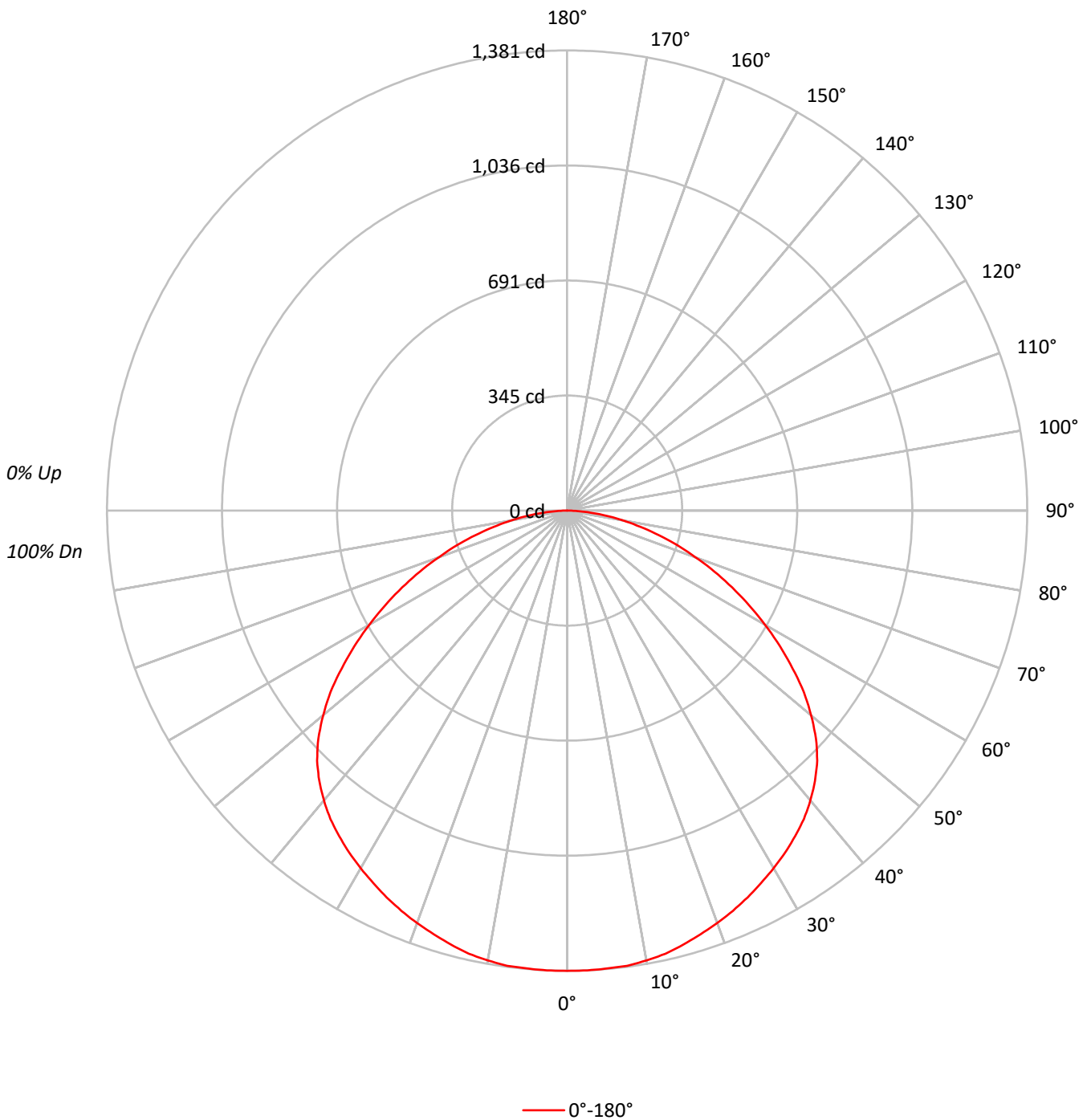
Lumens per Lamp: N/A
Luminaire Lumens: 4330.3 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	11722
5°	11752
10°	11813
15°	11846
20°	11896
25°	11994
30°	12146
35°	12358
40°	12582
45°	12739
50°	12621
55°	12227
60°	11648
65°	10969
70°	10165
75°	9351
80°	8278
85°	6738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.0
10°-20°	381.0	8.8
20°-30°	591.4	13.7
30°-40°	747.0	17.3
40°-50°	815.5	18.8
50°-60°	737.9	17.0
60°-70°	541.4	12.5
70°-80°	302.4	7.0
80°-90°	82.3	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°	1103.8	25.5
0°-40°	1850.9	42.7
0°-60°	3404.2	78.6
0°-90°	4330.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1381	
5°	1380	131
15°	1348	381
25°	1281	591
35°	1193	747
45°	1062	815
55°	826	738
65°	546	541
75°	285	302
85°	69	82
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1381.3
2.5°	1381.3
5°	1379.6
7.5°	1377.8
10°	1370.9
12.5°	1362.3
15°	1348.4
17.5°	1332.9
20°	1317.3
22.5°	1300.0
25°	1281.0
27.5°	1260.3
30°	1239.5
32.5°	1217.1
35°	1192.9
37.5°	1166.9
40°	1135.8
42.5°	1101.2
45°	1061.5
47.5°	1013.1
50°	956.0
52.5°	895.5
55°	826.4
57.5°	757.2
60°	686.3
62.5°	615.4
65°	546.3
67.5°	478.9
70°	409.7
72.5°	347.5
75°	285.2
77.5°	224.7
80°	169.4
82.5°	117.6
85°	69.2
87.5°	31.1
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	20.95	22.61	21.31	22.93	23.24	20.95	22.61	21.31	22.93	23.24
	3H	22.64	24.15	23.02	24.47	24.83	22.64	24.15	23.02	24.47	24.83
	4H	23.27	24.69	23.67	25.03	25.41	23.27	24.69	23.67	25.03	25.41
	6H	23.72	25.04	24.13	25.40	25.79	23.72	25.04	24.13	25.40	25.79
	8H	23.87	25.12	24.29	25.51	25.91	23.87	25.12	24.29	25.51	25.91
	12H	23.96	25.16	24.39	25.54	25.97	23.96	25.16	24.39	25.54	25.97
4H	2H	21.55	22.97	21.95	23.32	23.69	21.55	22.97	21.95	23.32	23.69
	3H	23.46	24.65	23.87	25.05	25.45	23.46	24.65	23.87	25.05	25.45
	4H	24.22	25.29	24.65	25.71	26.14	24.22	25.29	24.65	25.71	26.14
	6H	24.80	25.74	25.25	26.18	26.63	24.80	25.74	25.25	26.18	26.63
	8H	24.99	25.87	25.45	26.31	26.78	24.99	25.87	25.45	26.31	26.78
	12H	25.12	25.91	25.60	26.39	26.86	25.12	25.91	25.60	26.39	26.86
8H	4H	24.52	25.40	24.97	25.84	26.30	24.52	25.40	24.97	25.84	26.30
	6H	25.21	25.95	25.70	26.43	26.91	25.21	25.95	25.70	26.43	26.91
	8H	25.47	26.13	25.98	26.63	27.12	25.47	26.13	25.98	26.63	27.12
	12H	25.67	26.25	26.18	26.74	27.30	25.67	26.25	26.18	26.74	27.30
12H	4H	24.55	25.34	25.03	25.81	26.28	24.55	25.34	25.03	25.81	26.28
	6H	25.26	25.92	25.77	26.43	26.91	25.26	25.92	25.77	26.43	26.91
	8H	25.58	26.16	26.08	26.65	27.21	25.58	26.16	26.08	26.65	27.21