

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: P865999

Luminaire Tested: PRLX-2001-M-930-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865999
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-930-55L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

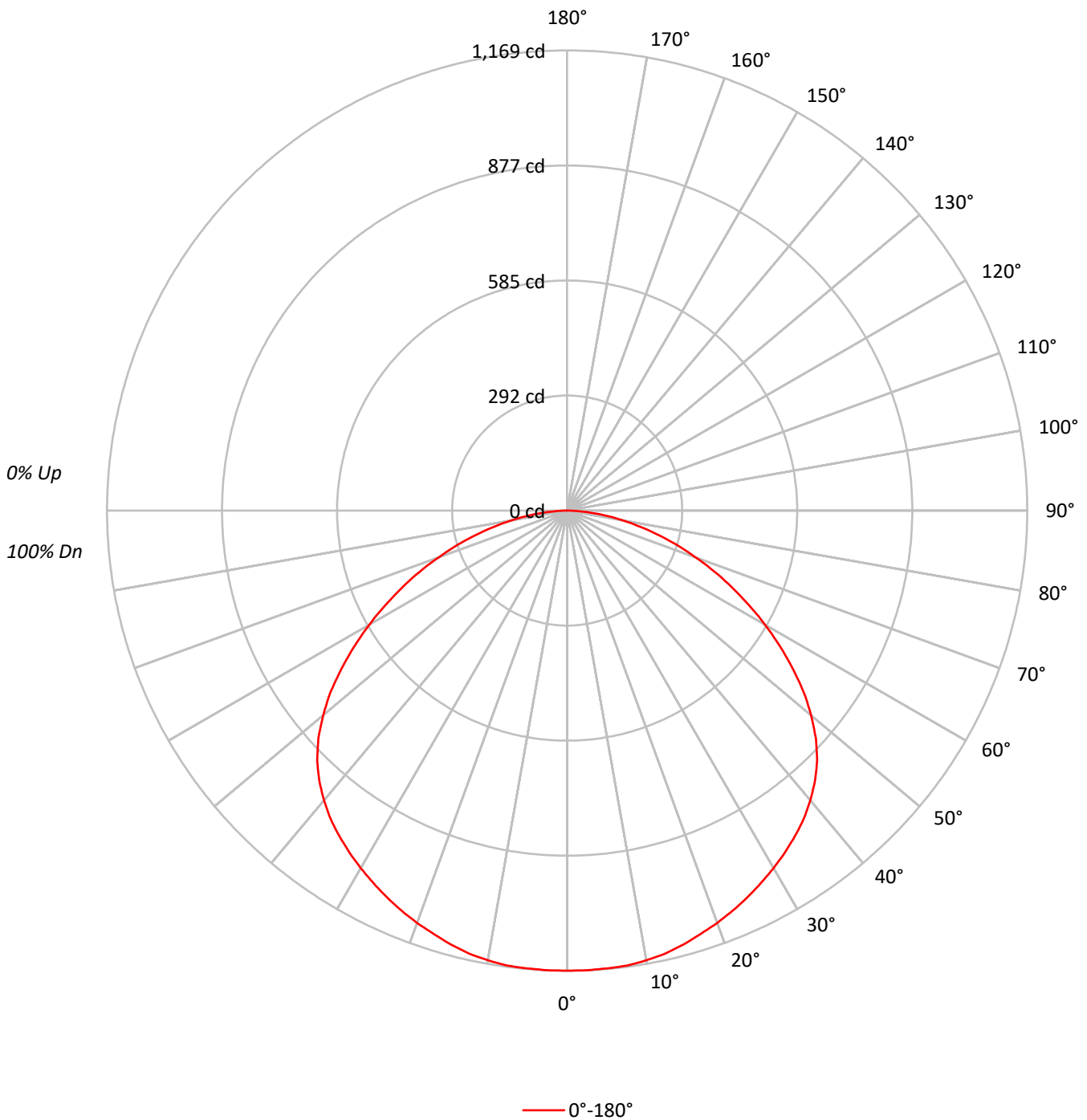
Lumens per Lamp: N/A
Luminaire Lumens: 3664.1 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): 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°	9918
5°	9944
10°	9996
15°	10024
20°	10066
25°	10149
30°	10277
35°	10456
40°	10647
45°	10779
50°	10679
55°	10345
60°	9856
65°	9281
70°	8602
75°	7915
80°	7008
85°	5696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10779 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.0
10°-20°	322.4	8.8
20°-30°	500.4	13.7
30°-40°	632.1	17.3
40°-50°	690.0	18.8
50°-60°	624.3	17.0
60°-70°	458.1	12.5
70°-80°	255.9	7.0
80°-90°	69.6	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°	934.0	25.5
0°-40°	1566.1	42.7
0°-60°	2880.5	78.6
0°-90°	3664.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1169	
5°	1167	111
15°	1141	322
25°	1084	500
35°	1009	632
45°	898	690
55°	699	624
65°	462	458
75°	241	256
85°	58	70
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1168.8
2.5°	1168.8
5°	1167.3
7.5°	1165.9
10°	1160.0
12.5°	1152.7
15°	1141.0
17.5°	1127.8
20°	1114.7
22.5°	1100.0
25°	1083.9
27.5°	1066.4
30°	1048.8
32.5°	1029.8
35°	1009.3
37.5°	987.4
40°	961.1
42.5°	931.8
45°	898.2
47.5°	857.2
50°	808.9
52.5°	757.7
55°	699.2
57.5°	640.7
60°	580.7
62.5°	520.8
65°	462.2
67.5°	405.2
70°	346.7
72.5°	294.0
75°	241.4
77.5°	190.2
80°	143.4
82.5°	99.5
85°	58.5
87.5°	26.3
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	20.37	22.03	20.73	22.35	22.66	20.37	22.03	20.73	22.35	22.66
	3H	22.06	23.57	22.44	23.89	24.25	22.06	23.57	22.44	23.89	24.25
	4H	22.69	24.11	23.09	24.45	24.83	22.69	24.11	23.09	24.45	24.83
	6H	23.14	24.46	23.55	24.82	25.21	23.14	24.46	23.55	24.82	25.21
	8H	23.29	24.54	23.71	24.93	25.33	23.29	24.54	23.71	24.93	25.33
	12H	23.38	24.58	23.81	24.96	25.39	23.38	24.58	23.81	24.96	25.39
4H	2H	20.97	22.39	21.37	22.74	23.11	20.97	22.39	21.37	22.74	23.11
	3H	22.88	24.07	23.29	24.47	24.87	22.88	24.07	23.29	24.47	24.87
	4H	23.64	24.71	24.07	25.13	25.56	23.64	24.71	24.07	25.13	25.56
	6H	24.22	25.16	24.67	25.60	26.05	24.22	25.16	24.67	25.60	26.05
	8H	24.41	25.29	24.87	25.73	26.20	24.41	25.29	24.87	25.73	26.20
	12H	24.54	25.34	25.02	25.81	26.28	24.54	25.34	25.02	25.81	26.28
8H	4H	23.94	24.82	24.39	25.26	25.72	23.94	24.82	24.39	25.26	25.72
	6H	24.63	25.37	25.12	25.85	26.33	24.63	25.37	25.12	25.85	26.33
	8H	24.89	25.55	25.40	26.05	26.54	24.89	25.55	25.40	26.05	26.54
	12H	25.09	25.67	25.60	26.16	26.72	25.09	25.67	25.60	26.16	26.72
12H	4H	23.97	24.76	24.45	25.23	25.70	23.97	24.76	24.45	25.23	25.70
	6H	24.68	25.34	25.19	25.85	26.33	24.68	25.34	25.19	25.85	26.33
	8H	25.00	25.58	25.50	26.07	26.63	25.00	25.58	25.50	26.07	26.63