

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: P865979

Luminaire Tested: PRLX-2001-M-930-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

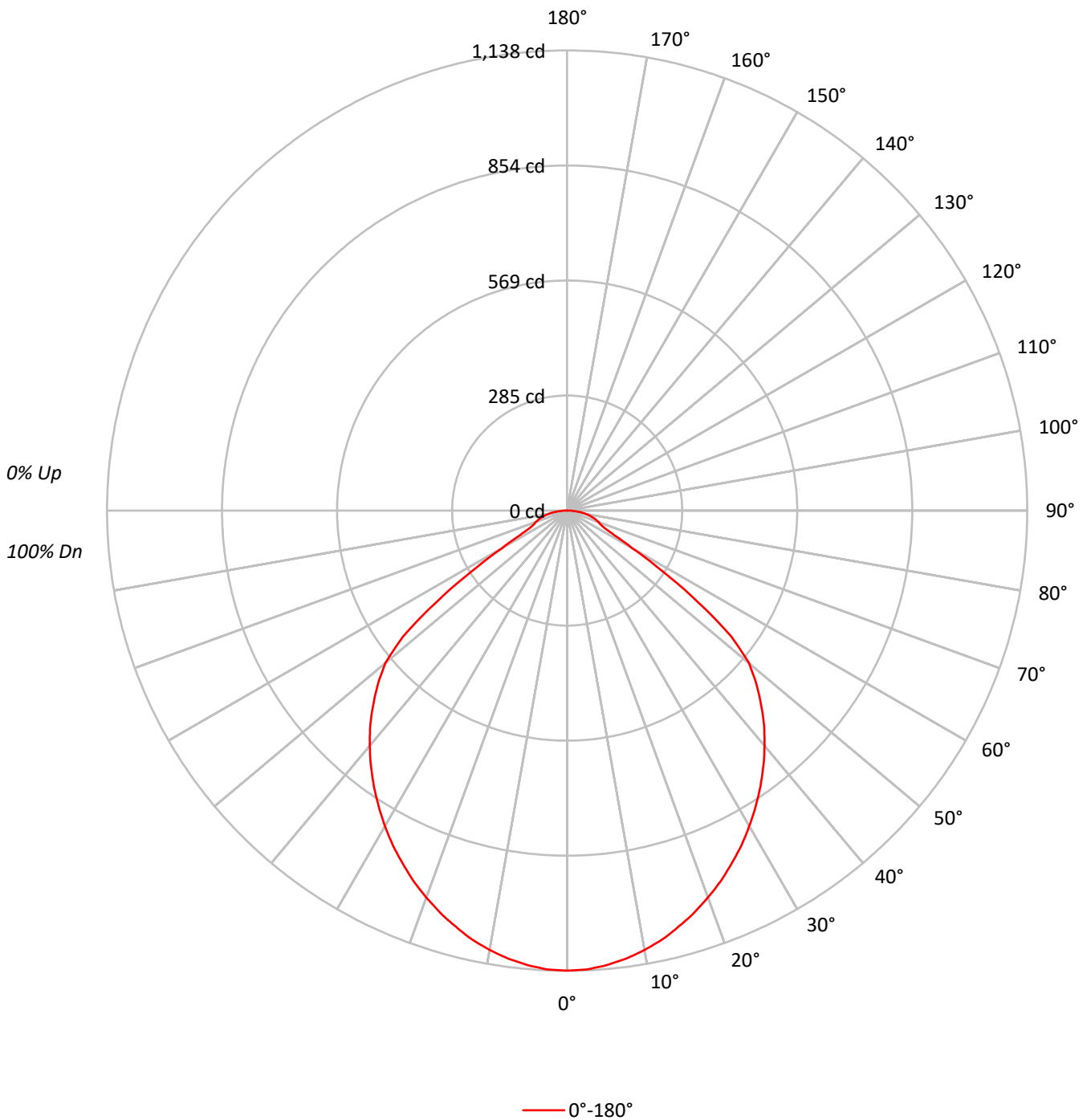
Lumens per Lamp: N/A
Luminaire Lumens: 2450.4 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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

TEST NUMBER: P865979

CATALOG NUMBER: PRLX-2001-M-930-25L-L-U-S-X-X-WHHR-X

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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9655
5°	9612
10°	9505
15°	9358
20°	9193
25°	9015
30°	8829
35°	8631
40°	8411
45°	8139
50°	7743
55°	5863
60°	3148
65°	2030
70°	2044
75°	2157
80°	2243
85°	2269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	4.4
10°-20°	300.3	12.3
20°-30°	443.7	18.1
30°-40°	521.0	21.3
40°-50°	522.3	21.3
50°-60°	349.8	14.3
60°-70°	112.3	4.6
70°-80°	68.7	2.8
80°-90°	25.4	1.0
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°	850.9	34.7
0°-40°	1371.9	56.0
0°-60°	2243.9	91.6
0°-90°	2450.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1138	
5°	1128	107
15°	1065	300
25°	963	444
35°	833	521
45°	678	522
55°	396	350
65°	101	112
75°	66	69
85°	23	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1137.7
2.5°	1135.7
5°	1128.4
7.5°	1117.7
10°	1103.1
12.5°	1086.5
15°	1065.2
17.5°	1043.3
20°	1018.0
22.5°	992.1
25°	962.8
27.5°	933.5
30°	901.0
32.5°	867.7
35°	833.1
37.5°	797.2
40°	759.3
42.5°	720.8
45°	678.2
47.5°	635.0
50°	586.5
52.5°	512.0
55°	396.3
57.5°	281.3
60°	185.5
62.5°	131.0
65°	101.1
67.5°	89.1
70°	82.4
72.5°	74.5
75°	65.8
77.5°	55.9
80°	45.9
82.5°	35.2
85°	23.3
87.5°	12.0
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	16.16	17.63	16.52	17.95	18.26	16.16	17.63	16.52	17.95	18.26
	3H	16.64	17.95	17.02	18.28	18.64	16.64	17.95	17.02	18.28	18.64
	4H	16.96	18.18	17.36	18.53	18.91	16.96	18.18	17.36	18.53	18.91
	6H	17.29	18.41	17.70	18.78	19.17	17.29	18.41	17.70	18.78	19.17
	8H	17.43	18.50	17.85	18.89	19.29	17.43	18.50	17.85	18.89	19.29
	12H	17.53	18.56	17.96	18.94	19.37	17.53	18.56	17.96	18.94	19.37
4H	2H	16.19	17.42	16.59	17.77	18.15	16.19	17.42	16.59	17.77	18.15
	3H	16.90	17.90	17.31	18.30	18.71	16.90	17.90	17.31	18.30	18.71
	4H	17.38	18.27	17.81	18.69	19.13	17.38	18.27	17.81	18.69	19.13
	6H	17.87	18.65	18.33	19.10	19.56	17.87	18.65	18.33	19.10	19.56
	8H	18.08	18.81	18.55	19.26	19.73	18.08	18.81	18.55	19.26	19.73
	12H	18.26	18.91	18.74	19.39	19.86	18.26	18.91	18.74	19.39	19.86
8H	4H	17.54	18.27	18.00	18.71	19.18	17.54	18.27	18.00	18.71	19.18
	6H	18.17	18.78	18.67	19.27	19.75	18.17	18.78	18.67	19.27	19.75
	8H	18.47	19.02	18.98	19.53	20.02	18.47	19.02	18.98	19.53	20.02
	12H	18.73	19.23	19.25	19.72	20.28	18.73	19.23	19.25	19.72	20.28
12H	4H	17.55	18.20	18.04	18.68	19.16	17.55	18.20	18.04	18.68	19.16
	6H	18.22	18.76	18.73	19.28	19.76	18.22	18.76	18.73	19.28	19.76
	8H	18.57	19.07	19.08	19.56	20.12	18.57	19.07	19.08	19.56	20.12