

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: P865988

Luminaire Tested: PRLX-2001-M-930-45L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-45L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

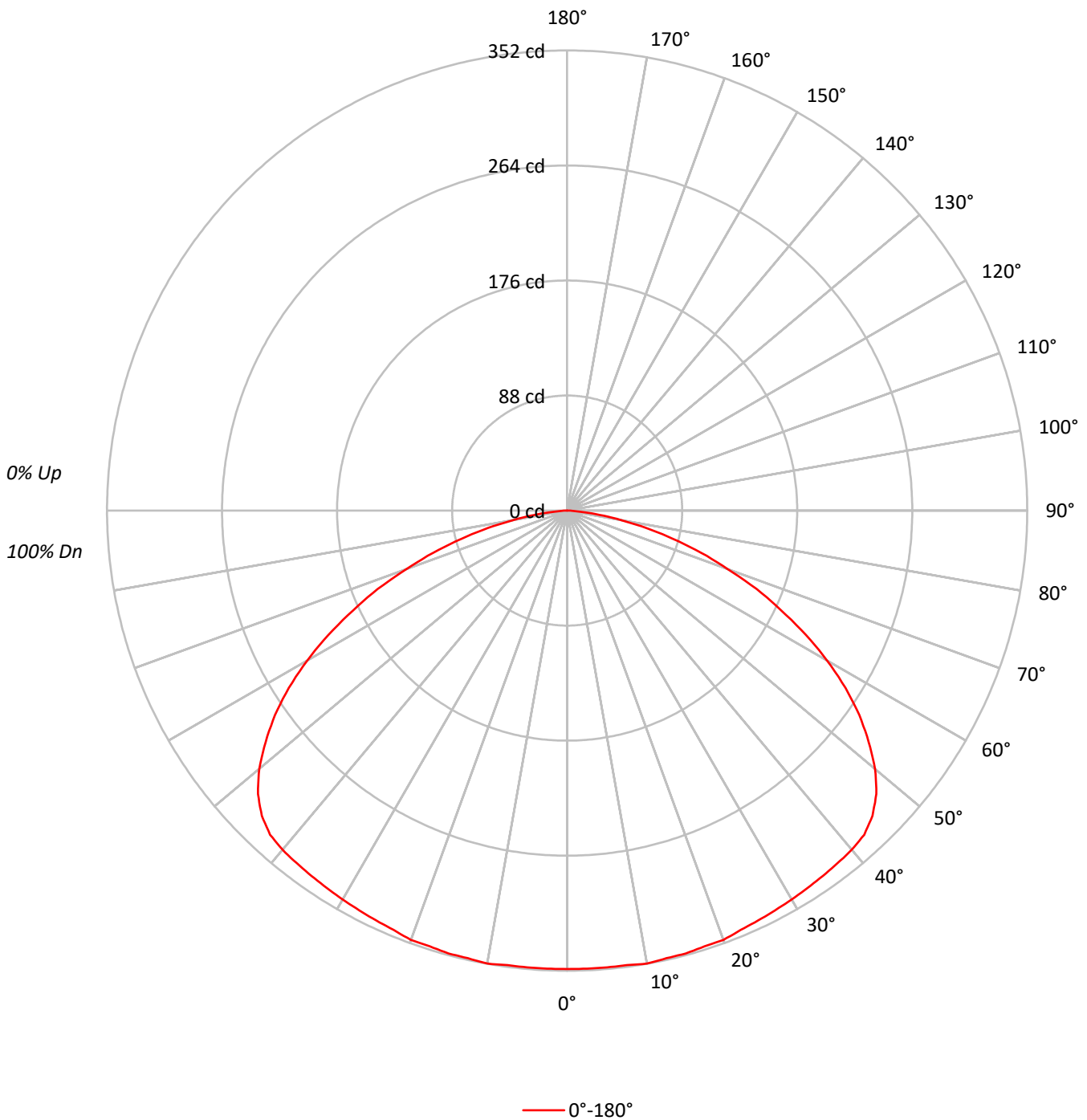
Lumens per Lamp: N/A
Luminaire Lumens: 1287.8 lumens
Efficiency: N/A
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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: 0.5 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2976
5°	2987
10°	3032
15°	3081
20°	3156
25°	3239
30°	3366
35°	3534
40°	3752
45°	3964
50°	4061
55°	4038
60°	3900
65°	3628
70°	3238
75°	2748
80°	2048
85°	1052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	2.6
10°-20°	99.3	7.7
20°-30°	160.1	12.4
30°-40°	214.2	16.6
40°-50°	253.4	19.7
50°-60°	242.7	18.8
60°-70°	178.9	13.9
70°-80°	89.5	7.0
80°-90°	16.1	1.3
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°	292.9	22.7
0°-40°	507.1	39.4
0°-60°	1003.2	77.9
0°-90°	1287.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1287.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	351	
5°	351	34
15°	351	99
25°	346	160
35°	341	214
45°	330	253
55°	273	243
65°	181	179
75°	84	90
85°	11	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	350.7
2.5°	350.7
5°	350.7
7.5°	350.7
10°	351.9
12.5°	350.7
15°	350.7
17.5°	349.5
20°	349.5
22.5°	347.1
25°	345.9
27.5°	344.7
30°	343.5
32.5°	342.3
35°	341.1
37.5°	339.9
40°	338.7
42.5°	336.3
45°	330.3
47.5°	320.8
50°	307.6
52.5°	290.8
55°	272.9
57.5°	252.5
60°	229.8
62.5°	205.9
65°	180.7
67.5°	156.8
70°	130.5
72.5°	107.7
75°	83.8
77.5°	62.2
80°	41.9
82.5°	25.1
85°	10.8
87.5°	2.4
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	17.49	19.19	17.85	19.50	19.82	17.49	19.19	17.85	19.50	19.82
	3H	19.10	20.64	19.48	20.97	21.32	19.10	20.64	19.48	20.97	21.32
	4H	19.62	21.07	20.02	21.42	21.79	19.62	21.07	20.02	21.42	21.79
	6H	19.92	21.27	20.33	21.63	22.02	19.92	21.27	20.33	21.63	22.02
	8H	19.98	21.27	20.41	21.66	22.05	19.98	21.27	20.41	21.66	22.05
	12H	20.00	21.23	20.43	21.61	22.04	20.00	21.23	20.43	21.61	22.04
4H	2H	18.09	19.54	18.49	19.88	20.26	18.09	19.54	18.49	19.88	20.26
	3H	19.90	21.11	20.31	21.51	21.91	19.90	21.11	20.31	21.51	21.91
	4H	20.52	21.62	20.96	22.03	22.47	20.52	21.62	20.96	22.03	22.47
	6H	20.92	21.88	21.37	22.32	22.77	20.92	21.88	21.37	22.32	22.77
	8H	21.01	21.90	21.46	22.34	22.81	21.01	21.90	21.46	22.34	22.81
	12H	21.04	21.85	21.52	22.32	22.79	21.04	21.85	21.52	22.32	22.79
8H	4H	20.76	21.66	21.22	22.10	22.56	20.76	21.66	21.22	22.10	22.56
	6H	21.23	21.97	21.72	22.46	22.93	21.23	21.97	21.72	22.46	22.93
	8H	21.35	22.02	21.86	22.52	23.01	21.35	22.02	21.86	22.52	23.01
	12H	21.41	22.00	21.92	22.49	23.05	21.41	22.00	21.92	22.49	23.05
12H	4H	20.78	21.58	21.26	22.06	22.53	20.78	21.58	21.26	22.06	22.53
	6H	21.25	21.91	21.75	22.42	22.90	21.25	21.91	21.75	22.42	22.90
	8H	21.41	21.99	21.91	22.48	23.04	21.41	21.99	21.91	22.48	23.04