

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: P865972

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865972
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-930-25L-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 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

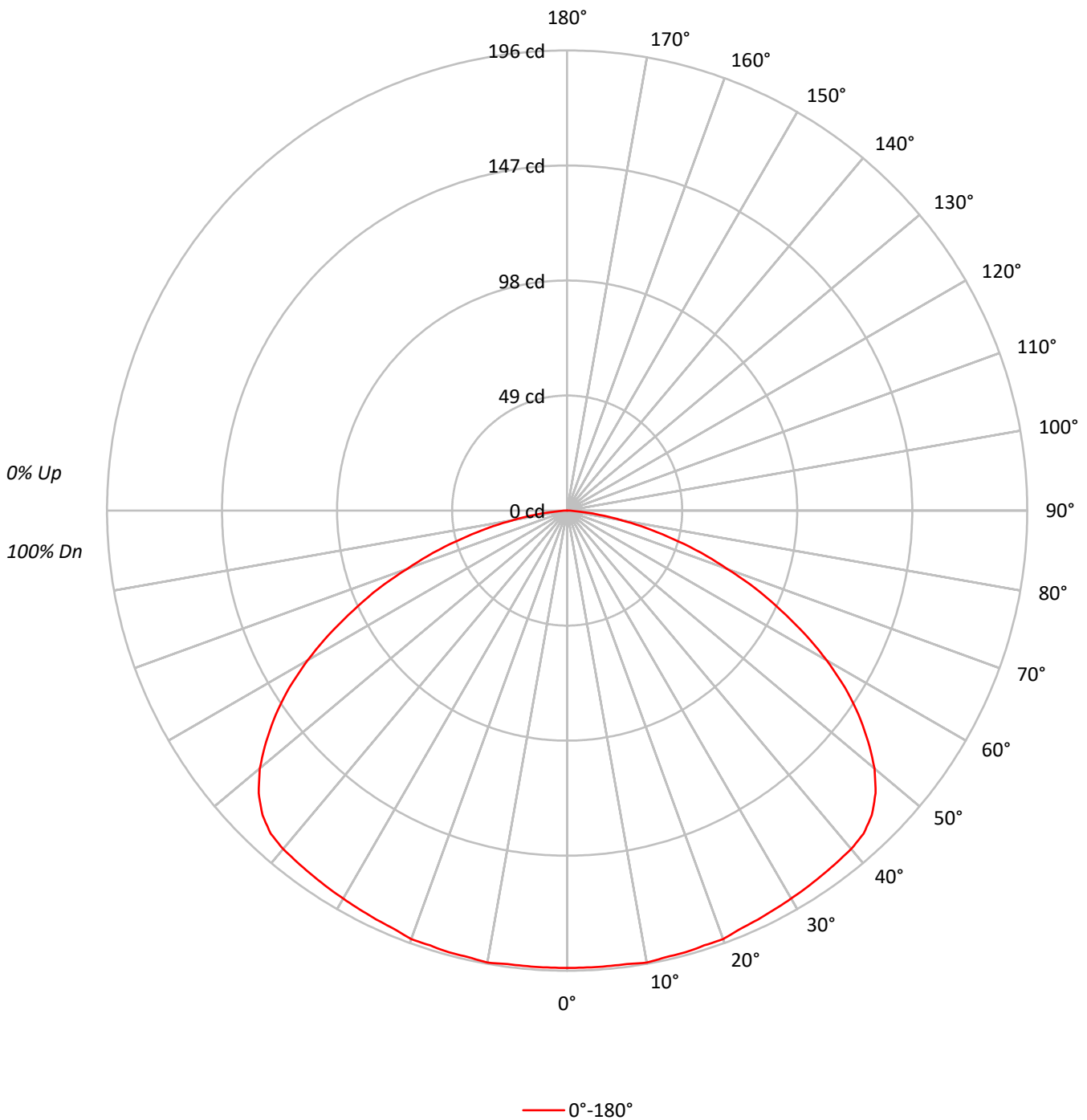
Lumens per Lamp: N/A
Luminaire Lumens: 715.4 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: 0.5 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	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	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1653
5°	1659
10°	1685
15°	1711
20°	1754
25°	1800
30°	1870
35°	1963
40°	2085
45°	2202
50°	2256
55°	2243
60°	2167
65°	2016
70°	1799
75°	1525
80°	1139
85°	584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	2.6
10°-20°	55.2	7.7
20°-30°	88.9	12.4
30°-40°	119.0	16.6
40°-50°	140.8	19.7
50°-60°	134.8	18.8
60°-70°	99.4	13.9
70°-80°	49.7	7.0
80°-90°	9.0	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°	162.7	22.7
0°-40°	281.7	39.4
0°-60°	557.3	77.9
0°-90°	715.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	195	
5°	195	19
15°	195	55
25°	192	89
35°	190	119
45°	184	141
55°	152	135
65°	100	99
75°	46	50
85°	6	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	194.8
2.5°	194.8
5°	194.8
7.5°	194.8
10°	195.5
12.5°	194.8
15°	194.8
17.5°	194.2
20°	194.2
22.5°	192.8
25°	192.2
27.5°	191.5
30°	190.8
32.5°	190.2
35°	189.5
37.5°	188.8
40°	188.2
42.5°	186.8
45°	183.5
47.5°	178.2
50°	170.9
52.5°	161.6
55°	151.6
57.5°	140.3
60°	127.7
62.5°	114.4
65°	100.4
67.5°	87.1
70°	72.5
72.5°	59.8
75°	46.5
77.5°	34.6
80°	23.3
82.5°	14.0
85°	6.0
87.5°	1.3
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	15.45	17.15	15.81	17.46	17.77	15.45	17.15	15.81	17.46	17.77
	3H	17.06	18.60	17.44	18.92	19.28	17.06	18.60	17.44	18.92	19.28
	4H	17.58	19.03	17.98	19.38	19.75	17.58	19.03	17.98	19.38	19.75
	6H	17.88	19.23	18.29	19.59	19.98	17.88	19.23	18.29	19.59	19.98
	8H	17.94	19.23	18.37	19.61	20.01	17.94	19.23	18.37	19.61	20.01
	12H	17.96	19.19	18.39	19.57	20.00	17.96	19.19	18.39	19.57	20.00
4H	2H	16.05	17.50	16.44	17.84	18.22	16.05	17.50	16.44	17.84	18.22
	3H	17.86	19.07	18.27	19.47	19.87	17.86	19.07	18.27	19.47	19.87
	4H	18.48	19.58	18.91	19.99	20.42	18.48	19.58	18.91	19.99	20.42
	6H	18.88	19.84	19.33	20.27	20.73	18.88	19.84	19.33	20.27	20.73
	8H	18.96	19.86	19.42	20.30	20.76	18.96	19.86	19.42	20.30	20.76
	12H	19.00	19.81	19.48	20.28	20.75	19.00	19.81	19.48	20.28	20.75
8H	4H	18.72	19.62	19.18	20.06	20.52	18.72	19.62	19.18	20.06	20.52
	6H	19.19	19.93	19.68	20.42	20.89	19.19	19.93	19.68	20.42	20.89
	8H	19.31	19.98	19.82	20.48	20.97	19.31	19.98	19.82	20.48	20.97
	12H	19.37	19.96	19.88	20.45	21.01	19.37	19.96	19.88	20.45	21.01
12H	4H	18.73	19.54	19.21	20.01	20.48	18.73	19.54	19.21	20.01	20.48
	6H	19.20	19.87	19.71	20.38	20.86	19.20	19.87	19.71	20.38	20.86
	8H	19.36	19.95	19.87	20.44	21.00	19.36	19.95	19.87	20.44	21.00