

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: P865448

Luminaire Tested: PRLX-2001-S-927-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-25L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

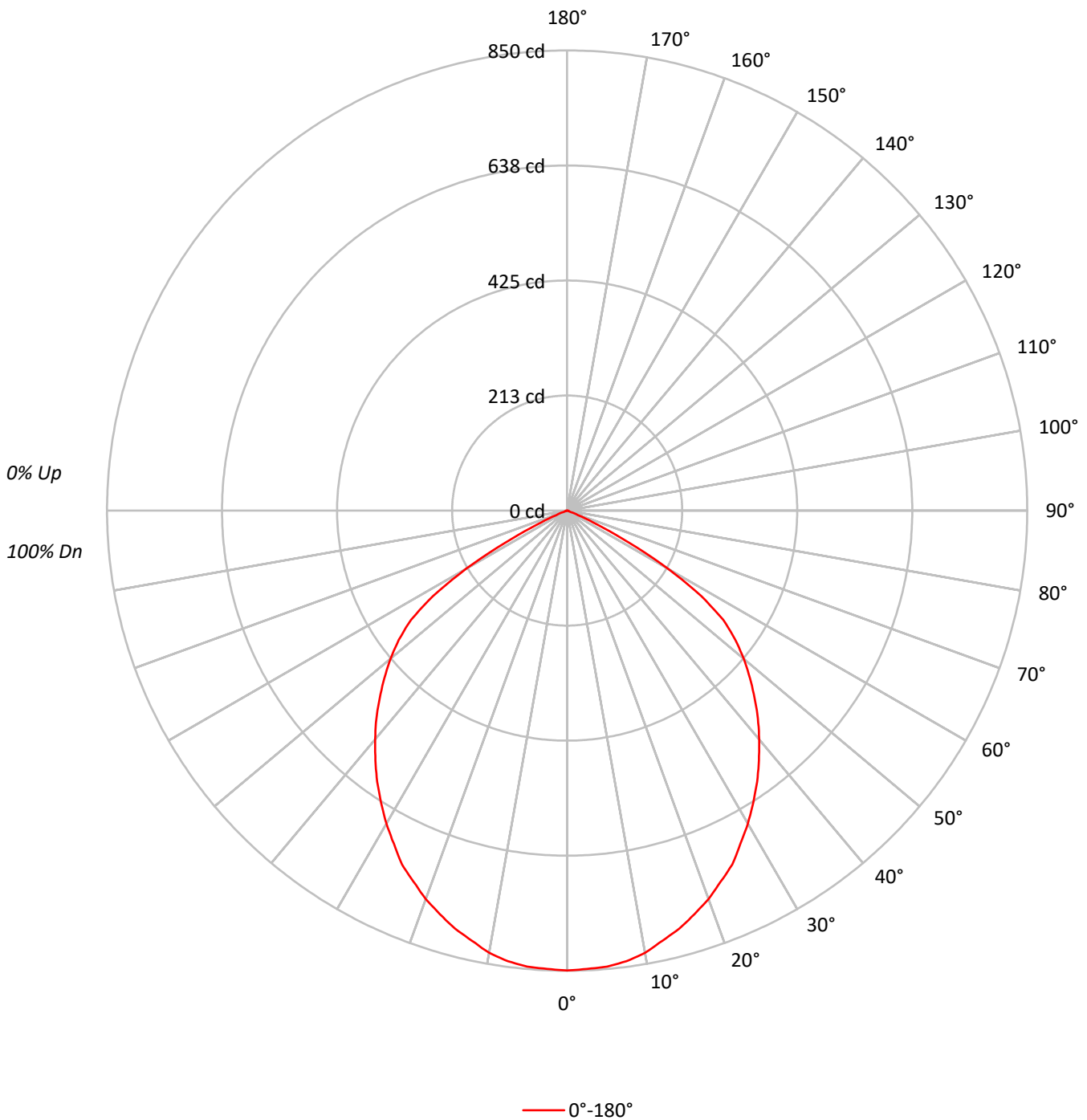
Lumens per Lamp: N/A
Luminaire Lumens: 1782.2 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13855
5°	13843
10°	13740
15°	13502
20°	13254
25°	12986
30°	12573
35°	12180
40°	11746
45°	11295
50°	10804
55°	10004
60°	7043
65°	2316
70°	191
75°	126
80°	188
85°	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	4.5
10°-20°	225.2	12.6
20°-30°	331.1	18.6
30°-40°	382.2	21.4
40°-50°	377.7	21.2
50°-60°	302.9	17.0
60°-70°	78.5	4.4
70°-80°	2.4	0.1
80°-90°	1.9	0.1
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°	636.5	35.7
0°-40°	1018.7	57.2
0°-60°	1699.4	95.4
0°-90°	1782.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	850	
5°	846	80
15°	800	225
25°	722	331
35°	612	382
45°	490	378
55°	352	303
65°	60	79
75°	2	2
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	849.5
2.5°	847.5
5°	845.5
7.5°	839.5
10°	829.6
12.5°	813.6
15°	799.6
17.5°	781.6
20°	763.6
22.5°	741.6
25°	721.6
27.5°	693.6
30°	667.6
32.5°	639.7
35°	611.7
37.5°	581.7
40°	551.7
42.5°	521.7
45°	489.7
47.5°	457.8
50°	425.8
52.5°	391.8
55°	351.8
57.5°	293.8
60°	215.9
62.5°	129.9
65°	60.0
67.5°	22.0
70°	4.0
72.5°	2.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	2.0
87.5°	2.0
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	19.91	21.36	20.27	21.67	21.99	19.91	21.36	20.27	21.67	21.99
	3H	19.81	21.09	20.19	21.42	21.78	19.81	21.09	20.19	21.42	21.78
	4H	19.74	20.93	20.14	21.28	21.66	19.74	20.93	20.14	21.28	21.66
	6H	19.68	20.77	20.09	21.13	21.53	19.68	20.77	20.09	21.13	21.53
	8H	19.64	20.67	20.07	21.06	21.46	19.64	20.67	20.07	21.06	21.46
	12H	19.60	20.59	20.03	20.97	21.40	19.60	20.59	20.03	20.97	21.40
4H	2H	19.81	21.00	20.22	21.35	21.73	19.81	21.00	20.22	21.35	21.73
	3H	19.72	20.68	20.13	21.08	21.48	19.72	20.68	20.13	21.08	21.48
	4H	19.64	20.49	20.07	20.91	21.35	19.64	20.49	20.07	20.91	21.35
	6H	19.57	20.30	20.03	20.75	21.21	19.57	20.30	20.03	20.75	21.21
	8H	19.52	20.20	19.99	20.65	21.12	19.52	20.20	19.99	20.65	21.12
	12H	19.48	20.09	19.96	20.57	21.04	19.48	20.09	19.96	20.57	21.04
8H	4H	19.52	20.20	19.98	20.65	21.12	19.52	20.20	19.98	20.65	21.12
	6H	19.42	19.98	19.92	20.48	20.96	19.42	19.98	19.92	20.48	20.96
	8H	19.36	19.87	19.88	20.38	20.87	19.36	19.87	19.88	20.38	20.87
	12H	19.32	19.77	19.83	20.27	20.84	19.32	19.77	19.83	20.27	20.84
12H	4H	19.47	20.08	19.96	20.56	21.04	19.47	20.08	19.96	20.56	21.04
	6H	19.36	19.87	19.88	20.38	20.87	19.36	19.87	19.88	20.38	20.87
	8H	19.31	19.77	19.83	20.26	20.83	19.31	19.77	19.83	20.26	20.83