

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: P865447

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

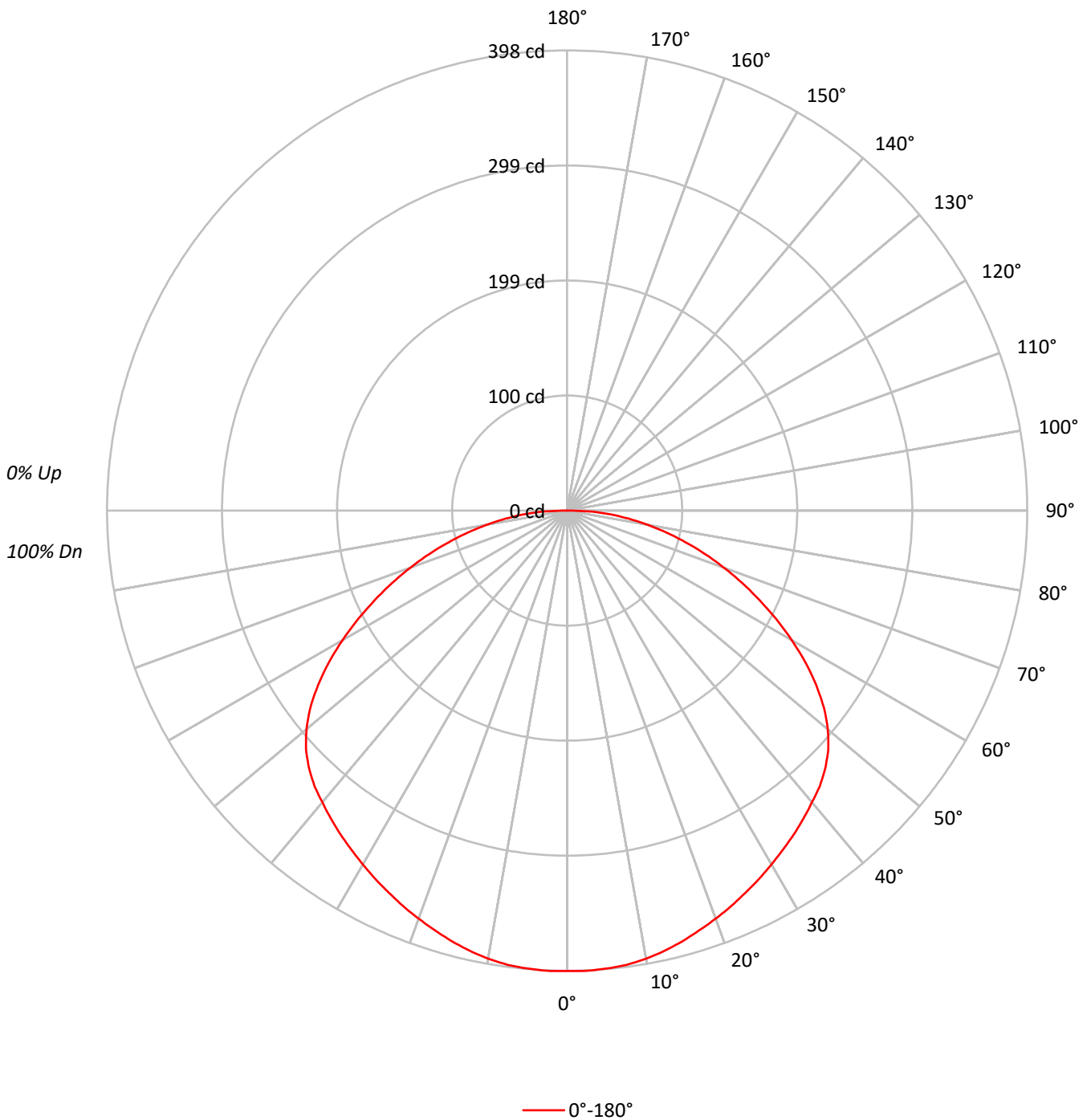
Lumens per Lamp: N/A
Luminaire Lumens: 1342.0 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	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	29	24		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6495
5°	6510
10°	6519
15°	6511
20°	6519
25°	6565
30°	6656
35°	6806
40°	7013
45°	7280
50°	7470
55°	7476
60°	7323
65°	7090
70°	6872
75°	6686
80°	6631
85°	6924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 8301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	2.8
10°-20°	108.9	8.1
20°-30°	168.5	12.6
30°-40°	214.3	16.0
40°-50°	243.1	18.1
50°-60°	234.2	17.5
60°-70°	182.2	13.6
70°-80°	112.6	8.4
80°-90°	40.3	3.0
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°	315.3	23.5
0°-40°	529.6	39.5
0°-60°	1006.9	75.0
0°-90°	1342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1342.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	398	
5°	398	38
15°	386	109
25°	365	169
35°	342	214
45°	316	243
55°	263	234
65°	184	182
75°	106	113
85°	37	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	398.2
2.5°	398.4
5°	397.6
7.5°	396.2
10°	393.6
12.5°	390.0
15°	385.6
17.5°	380.6
20°	375.6
22.5°	370.4
25°	364.8
27.5°	359.2
30°	353.4
32.5°	347.6
35°	341.8
37.5°	335.8
40°	329.4
42.5°	323.4
45°	315.6
47.5°	306.4
50°	294.4
52.5°	280.0
55°	262.9
57.5°	244.5
60°	224.5
62.5°	204.3
65°	183.7
67.5°	163.9
70°	144.1
72.5°	125.3
75°	106.1
77.5°	88.2
80°	70.6
82.5°	53.6
85°	37.0
87.5°	22.2
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	19.38	21.09	19.75	21.41	21.72	19.38	21.09	19.75	21.41	21.72
	3H	21.27	22.83	21.65	23.15	23.51	21.27	22.83	21.65	23.15	23.51
	4H	22.04	23.50	22.43	23.85	24.22	22.04	23.50	22.43	23.85	24.22
	6H	22.67	24.04	23.08	24.40	24.79	22.67	24.04	23.08	24.40	24.79
	8H	22.92	24.23	23.34	24.62	25.01	22.92	24.23	23.34	24.62	25.01
	12H	23.13	24.38	23.55	24.76	25.19	23.13	24.38	23.55	24.76	25.19
4H	2H	20.04	21.51	20.43	21.85	22.23	20.04	21.51	20.43	21.85	22.23
	3H	22.17	23.41	22.57	23.80	24.20	22.17	23.41	22.57	23.80	24.20
	4H	23.07	24.20	23.50	24.61	25.05	23.07	24.20	23.50	24.61	25.05
	6H	23.87	24.86	24.32	25.30	25.75	23.87	24.86	24.32	25.30	25.75
	8H	24.18	25.11	24.64	25.55	26.01	24.18	25.11	24.64	25.55	26.01
	12H	24.45	25.29	24.93	25.76	26.23	24.45	25.29	24.93	25.76	26.23
8H	4H	23.45	24.38	23.91	24.82	25.28	23.45	24.38	23.91	24.82	25.28
	6H	24.40	25.17	24.89	25.66	26.13	24.40	25.17	24.89	25.66	26.13
	8H	24.81	25.51	25.31	26.01	26.50	24.81	25.51	25.31	26.01	26.50
	12H	25.19	25.81	25.70	26.30	26.86	25.19	25.81	25.70	26.30	26.86
12H	4H	23.51	24.35	23.99	24.82	25.29	23.51	24.35	23.99	24.82	25.29
	6H	24.49	25.19	24.99	25.69	26.18	24.49	25.19	24.99	25.69	26.18
	8H	24.98	25.60	25.48	26.09	26.65	24.98	25.60	25.48	26.09	26.65