

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: P865511

Luminaire Tested: PRLX-2001-S-935-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865511
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-935-15L-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 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

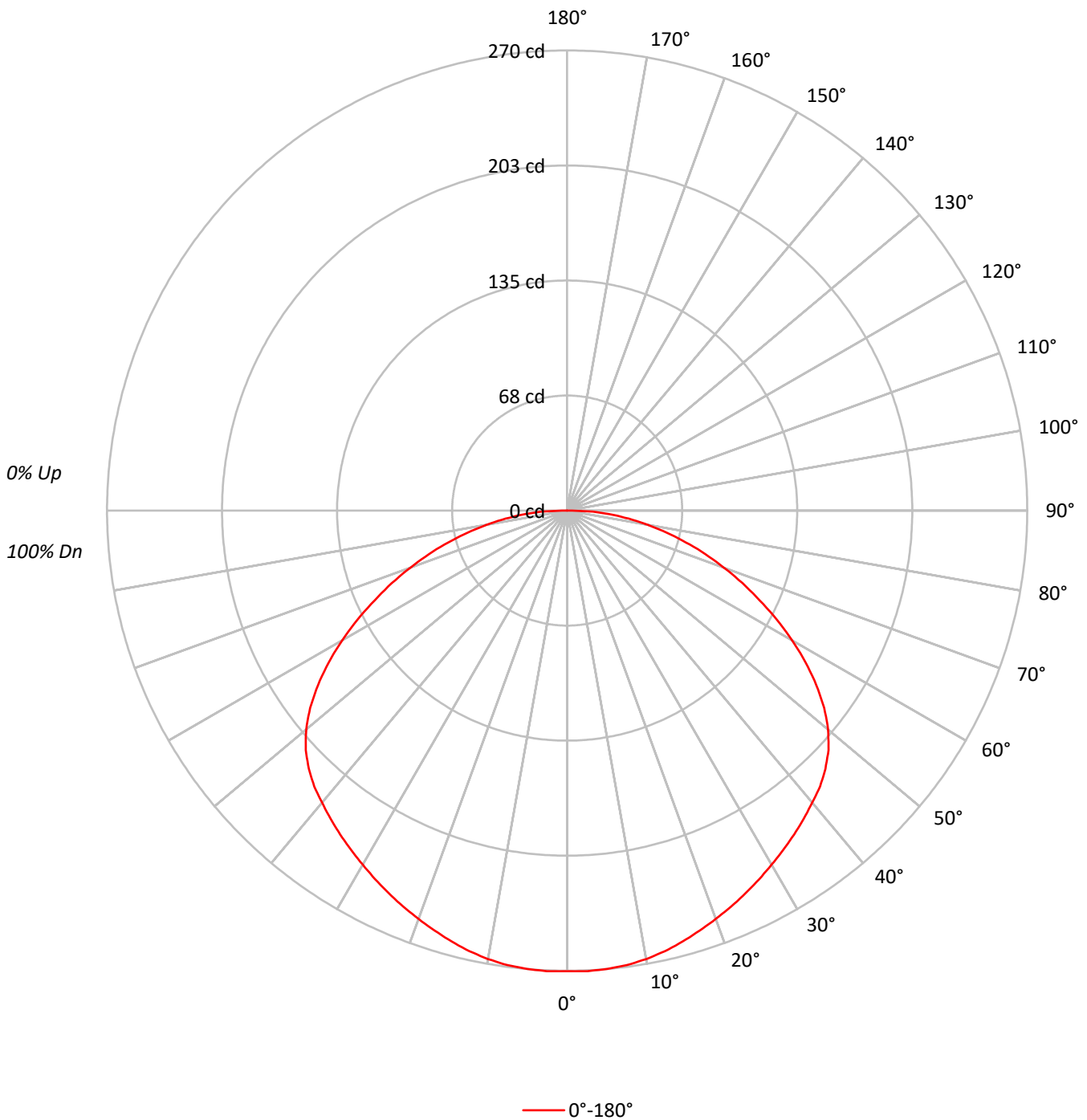
Lumens per Lamp: N/A
Luminaire Lumens: 911.1 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	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°	4409
5°	4419
10°	4425
15°	4421
20°	4426
25°	4458
30°	4518
35°	4621
40°	4763
45°	4943
50°	5072
55°	5076
60°	4971
65°	4813
70°	4664
75°	4544
80°	4499
85°	4697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5646 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	2.8
10°-20°	74.0	8.1
20°-30°	114.4	12.6
30°-40°	145.5	16.0
40°-50°	165.0	18.1
50°-60°	159.0	17.5
60°-70°	123.7	13.6
70°-80°	76.5	8.4
80°-90°	27.4	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°	214.1	23.5
0°-40°	359.6	39.5
0°-60°	683.6	75.0
0°-90°	911.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	270	
5°	270	26
15°	262	74
25°	248	114
35°	232	146
45°	214	165
55°	178	159
65°	125	124
75°	72	76
85°	25	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	270.3
2.5°	270.5
5°	269.9
7.5°	269.0
10°	267.2
12.5°	264.8
15°	261.8
17.5°	258.4
20°	255.0
22.5°	251.5
25°	247.7
27.5°	243.9
30°	239.9
32.5°	236.0
35°	232.1
37.5°	228.0
40°	223.7
42.5°	219.6
45°	214.3
47.5°	208.0
50°	199.9
52.5°	190.1
55°	178.5
57.5°	166.0
60°	152.4
62.5°	138.7
65°	124.7
67.5°	111.3
70°	97.8
72.5°	85.1
75°	72.1
77.5°	59.8
80°	47.9
82.5°	36.4
85°	25.1
87.5°	15.1
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	18.04	19.75	18.40	20.06	20.37	18.04	19.75	18.40	20.06	20.37
	3H	19.93	21.48	20.30	21.80	22.16	19.93	21.48	20.30	21.80	22.16
	4H	20.69	22.16	21.09	22.51	22.88	20.69	22.16	21.09	22.51	22.88
	6H	21.33	22.69	21.74	23.06	23.45	21.33	22.69	21.74	23.06	23.45
	8H	21.58	22.88	22.00	23.27	23.67	21.58	22.88	22.00	23.27	23.67
	12H	21.78	23.03	22.21	23.41	23.84	21.78	23.03	22.21	23.41	23.84
4H	2H	18.69	20.16	19.09	20.51	20.88	18.69	20.16	19.09	20.51	20.88
	3H	20.82	22.06	21.23	22.46	22.86	20.82	22.06	21.23	22.46	22.86
	4H	21.73	22.86	22.16	23.27	23.70	21.73	22.86	22.16	23.27	23.70
	6H	22.52	23.51	22.97	23.95	24.40	22.52	23.51	22.97	23.95	24.40
	8H	22.83	23.76	23.29	24.20	24.67	22.83	23.76	23.29	24.20	24.67
	12H	23.10	23.94	23.58	24.42	24.88	23.10	23.94	23.58	24.42	24.88
8H	4H	22.11	23.03	22.56	23.48	23.94	22.11	23.03	22.56	23.48	23.94
	6H	23.05	23.83	23.54	24.31	24.79	23.05	23.83	23.54	24.31	24.79
	8H	23.46	24.16	23.97	24.67	25.15	23.46	24.16	23.97	24.67	25.15
	12H	23.85	24.47	24.35	24.96	25.51	23.85	24.47	24.35	24.96	25.51
12H	4H	22.16	23.00	22.64	23.48	23.94	22.16	23.00	22.64	23.48	23.94
	6H	23.14	23.85	23.65	24.35	24.83	23.14	23.85	23.65	24.35	24.83
	8H	23.63	24.25	24.14	24.74	25.30	23.63	24.25	24.14	24.74	25.30