

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: P865591

Luminaire Tested: PRLX-2002-S-927-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-S-927-15L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

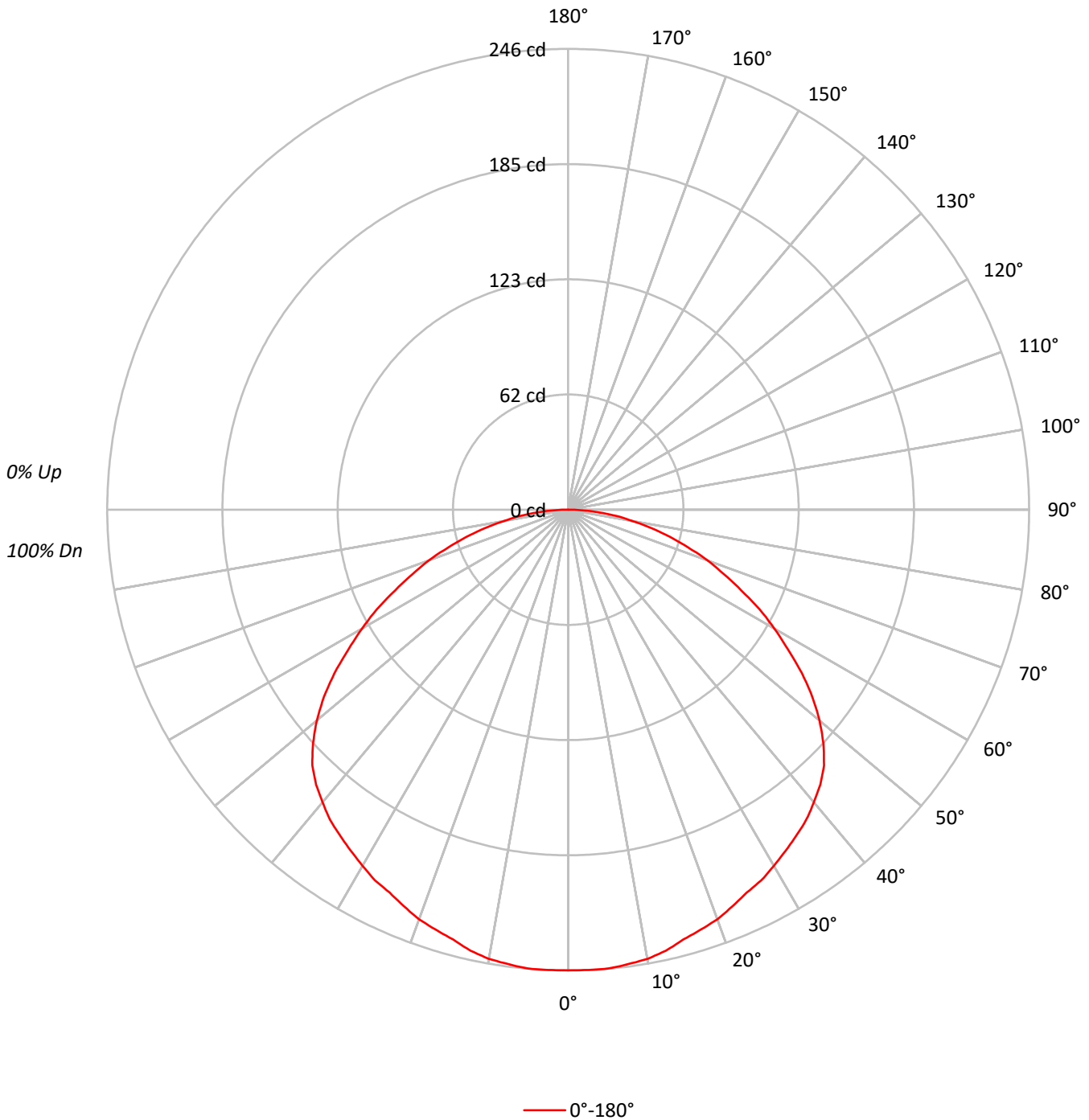
Lumens per Lamp: N/A
Luminaire Lumens: 791.8 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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: 0.333 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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4619
5°	4637
10°	4645
15°	4619
20°	4652
25°	4674
30°	4761
35°	4868
40°	5000
45°	5130
50°	5117
55°	4988
60°	4775
65°	4529
70°	4350
75°	4093
80°	3764
85°	3621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 5135 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	3.0
10°-20°	67.3	8.5
20°-30°	104.4	13.2
30°-40°	133.1	16.8
40°-50°	148.1	18.7
50°-60°	135.7	17.1
60°-70°	101.5	12.8
70°-80°	59.7	7.5
80°-90°	18.8	2.4
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°	195.1	24.6
0°-40°	328.2	41.4
0°-60°	611.9	77.3
0°-90°	791.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	246	23
15°	238	67
25°	226	104
35°	212	133
45°	193	148
55°	152	136
65°	102	101
75°	56	60
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	245.9
2.5°	245.9
5°	245.9
7.5°	244.7
10°	243.5
12.5°	241.1
15°	237.5
17.5°	235.1
20°	232.7
22.5°	229.1
25°	225.5
27.5°	223.1
30°	219.5
32.5°	215.9
35°	212.3
37.5°	208.7
40°	203.9
42.5°	199.1
45°	193.1
47.5°	184.7
50°	175.1
52.5°	164.3
55°	152.3
57.5°	139.1
60°	127.1
62.5°	115.1
65°	101.9
67.5°	90.0
70°	79.2
72.5°	67.2
75°	56.4
77.5°	45.6
80°	34.8
82.5°	26.4
85°	16.8
87.5°	8.4
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	17.82	19.50	18.18	19.82	20.13	17.82	19.50	18.18	19.82	20.13
	3H	19.61	21.13	19.98	21.46	21.82	19.61	21.13	19.98	21.46	21.82
	4H	20.30	21.74	20.70	22.09	22.46	20.30	21.74	20.70	22.09	22.46
	6H	20.84	22.17	21.25	22.54	22.93	20.84	22.17	21.25	22.54	22.93
	8H	21.03	22.31	21.46	22.70	23.10	21.03	22.31	21.46	22.70	23.10
	12H	21.18	22.41	21.61	22.79	23.21	21.18	22.41	21.61	22.79	23.21
4H	2H	18.44	19.88	18.84	20.23	20.60	18.44	19.88	18.84	20.23	20.60
	3H	20.47	21.68	20.87	22.07	22.47	20.47	21.68	20.87	22.07	22.47
	4H	21.30	22.39	21.73	22.81	23.24	21.30	22.39	21.73	22.81	23.24
	6H	21.97	22.93	22.42	23.37	23.82	21.97	22.93	22.42	23.37	23.82
	8H	22.22	23.12	22.68	23.57	24.03	22.22	23.12	22.68	23.57	24.03
	12H	22.43	23.24	22.91	23.71	24.18	22.43	23.24	22.91	23.71	24.18
8H	4H	21.63	22.53	22.09	22.97	23.44	21.63	22.53	22.09	22.97	23.44
	6H	22.44	23.19	22.93	23.67	24.15	22.44	23.19	22.93	23.67	24.15
	8H	22.78	23.45	23.29	23.96	24.44	22.78	23.45	23.29	23.96	24.44
	12H	23.07	23.67	23.58	24.16	24.72	23.07	23.67	23.58	24.16	24.72
12H	4H	21.67	22.49	22.15	22.96	23.43	21.67	22.49	22.15	22.96	23.43
	6H	22.51	23.19	23.01	23.69	24.17	22.51	23.19	23.01	23.69	24.17
	8H	22.92	23.52	23.42	24.01	24.56	22.92	23.52	23.42	24.01	24.56