

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: P865630

Luminaire Tested: PRLX-2002-S-930-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-15L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

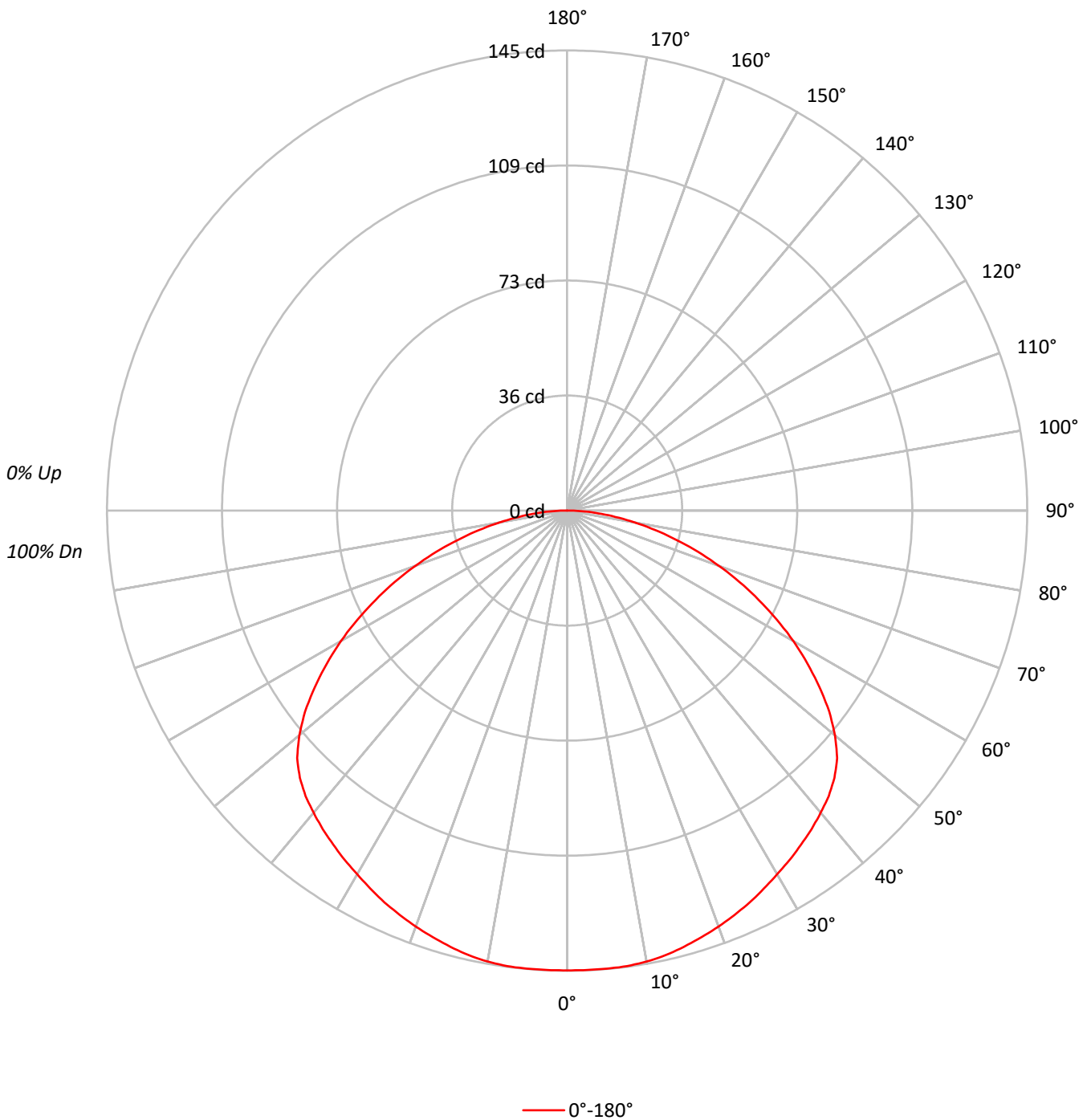
Lumens per Lamp: N/A
Luminaire Lumens: 490.7 lumens
Efficiency: N/A
Efficacy: 31.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2722
5°	2732
10°	2752
15°	2767
20°	2789
25°	2823
30°	2870
35°	2947
40°	3048
45°	3164
50°	3220
55°	3180
60°	3096
65°	2960
70°	2796
75°	2584
80°	2337
85°	2134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	2.8
10°-20°	40.2	8.2
20°-30°	62.9	12.8
30°-40°	80.6	16.4
40°-50°	91.6	18.7
50°-60°	86.6	17.7
60°-70°	65.9	13.4
70°-80°	37.9	7.7
80°-90°	11.2	2.3
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°	116.9	23.8
0°-40°	197.5	40.2
0°-60°	375.7	76.6
0°-90°	490.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	145	
5°	145	14
15°	142	40
25°	136	63
35°	128	81
45°	119	92
55°	97	87
65°	67	66
75°	36	38
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	144.9
2.5°	144.9
5°	144.9
7.5°	144.8
10°	144.3
12.5°	143.5
15°	142.3
17.5°	140.9
20°	139.5
22.5°	137.9
25°	136.2
27.5°	134.3
30°	132.3
32.5°	130.5
35°	128.5
37.5°	126.5
40°	124.3
42.5°	122.0
45°	119.1
47.5°	115.4
50°	110.2
52.5°	104.1
55°	97.1
57.5°	89.8
60°	82.4
62.5°	74.5
65°	66.6
67.5°	58.8
70°	50.9
72.5°	43.3
75°	35.6
77.5°	28.5
80°	21.6
82.5°	15.3
85°	9.9
87.5°	5.1
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	16.42	18.12	16.79	18.44	18.75	16.42	18.12	16.79	18.44	18.75
	3H	18.23	19.77	18.60	20.09	20.45	18.23	19.77	18.60	20.09	20.45
	4H	18.90	20.35	19.30	20.70	21.07	18.90	20.35	19.30	20.70	21.07
	6H	19.40	20.75	19.81	21.11	21.50	19.40	20.75	19.81	21.11	21.50
	8H	19.57	20.85	19.99	21.24	21.64	19.57	20.85	19.99	21.24	21.64
	12H	19.69	20.92	20.11	21.30	21.73	19.69	20.92	20.11	21.30	21.73
4H	2H	17.07	18.52	17.46	18.86	19.24	17.07	18.52	17.46	18.86	19.24
	3H	19.09	20.31	19.50	20.71	21.11	19.09	20.31	19.50	20.71	21.11
	4H	19.89	21.00	20.32	21.41	21.84	19.89	21.00	20.32	21.41	21.84
	6H	20.52	21.49	20.97	21.93	22.38	20.52	21.49	20.97	21.93	22.38
	8H	20.74	21.65	21.20	22.09	22.55	20.74	21.65	21.20	22.09	22.55
	12H	20.91	21.73	21.39	22.20	22.67	20.91	21.73	21.39	22.20	22.67
8H	4H	20.21	21.12	20.67	21.56	22.03	20.21	21.12	20.67	21.56	22.03
	6H	20.97	21.73	21.46	22.21	22.69	20.97	21.73	21.46	22.21	22.69
	8H	21.26	21.94	21.76	22.44	22.93	21.26	21.94	21.76	22.44	22.93
	12H	21.51	22.11	22.01	22.60	23.16	21.51	22.11	22.01	22.60	23.16
12H	4H	20.25	21.07	20.73	21.55	22.01	20.25	21.07	20.73	21.55	22.01
	6H	21.03	21.71	21.54	22.22	22.70	21.03	21.71	21.54	22.22	22.70
	8H	21.38	21.99	21.89	22.47	23.03	21.38	21.99	21.89	22.47	23.03