

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: P865589

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

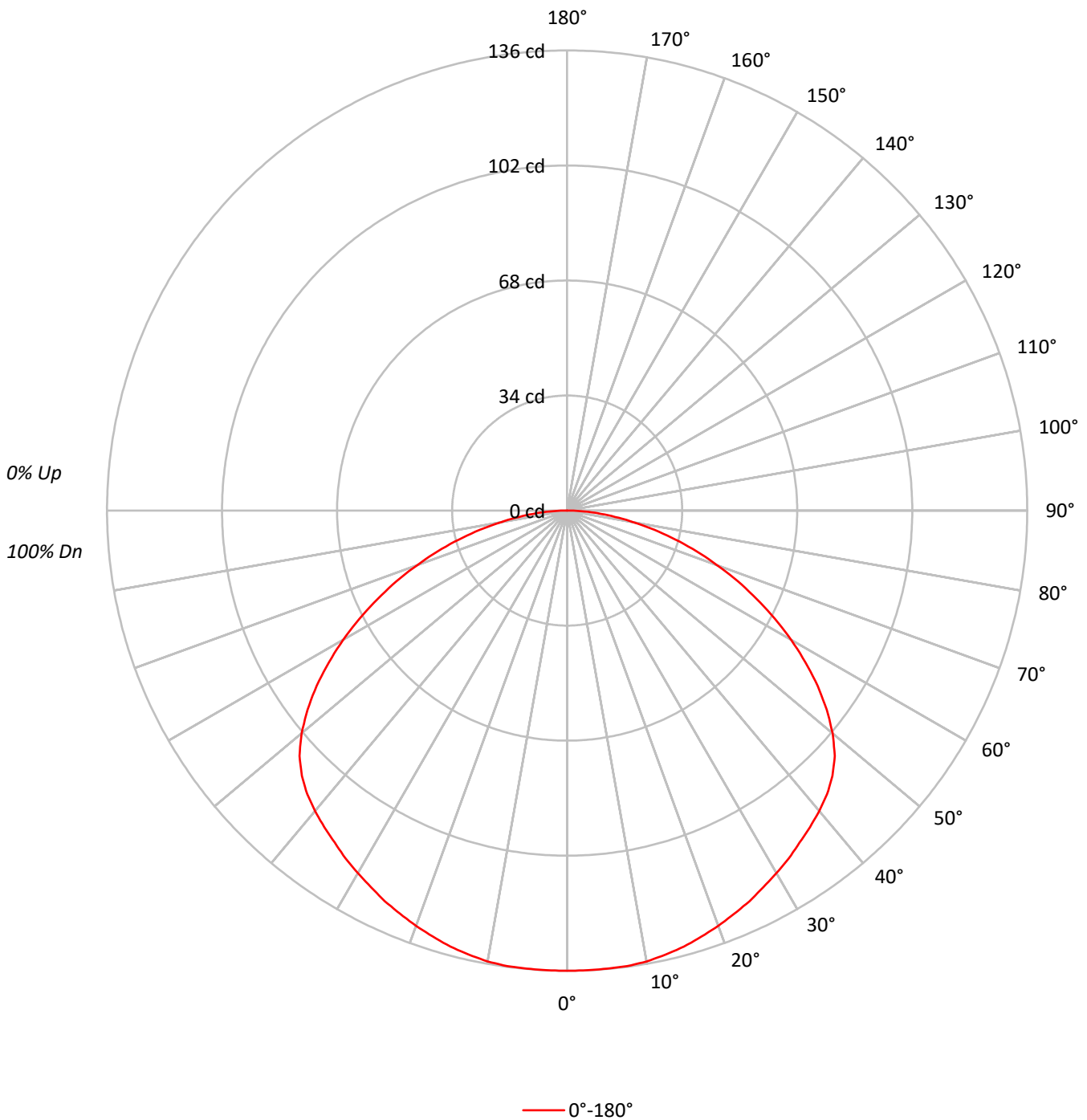
Lumens per Lamp: N/A
Luminaire Lumens: 457.1 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P865589

CATALOG NUMBER: PRLX-2002-S-927-15L-G-U-S-X-X-BRSS-X

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2555
5°	2563
10°	2581
15°	2594
20°	2611
25°	2641
30°	2683
35°	2747
40°	2842
45°	2946
50°	2992
55°	2961
60°	2874
65°	2747
70°	2587
75°	2402
80°	2163
85°	1940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2992 cd/sqm

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CATALOG NUMBER: PRLX-2002-S-927-15L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	2.8
10°-20°	37.7	8.2
20°-30°	58.8	12.9
30°-40°	75.2	16.4
40°-50°	85.3	18.6
50°-60°	80.5	17.6
60°-70°	61.2	13.4
70°-80°	35.2	7.7
80°-90°	10.3	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°	109.5	23.9
0°-40°	184.6	40.4
0°-60°	350.4	76.7
0°-90°	457.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	136	
5°	136	13
15°	133	38
25°	127	59
35°	120	75
45°	111	85
55°	90	81
65°	62	61
75°	33	35
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	136.0
2.5°	136.0
5°	135.9
7.5°	135.8
10°	135.3
12.5°	134.4
15°	133.4
17.5°	132.0
20°	130.6
22.5°	129.0
25°	127.4
27.5°	125.5
30°	123.7
32.5°	121.9
35°	119.8
37.5°	117.9
40°	115.9
42.5°	113.7
45°	110.9
47.5°	107.3
50°	102.4
52.5°	96.7
55°	90.4
57.5°	83.5
60°	76.5
62.5°	69.2
65°	61.8
67.5°	54.6
70°	47.1
72.5°	40.2
75°	33.1
77.5°	26.5
80°	20.0
82.5°	14.3
85°	9.0
87.5°	4.7
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	16.17	17.86	16.53	18.18	18.49	16.17	17.86	16.53	18.18	18.49
	3H	17.96	19.50	18.34	19.82	20.18	17.96	19.50	18.34	19.82	20.18
	4H	18.63	20.08	19.03	20.43	20.81	18.63	20.08	19.03	20.43	20.81
	6H	19.13	20.48	19.54	20.84	21.23	19.13	20.48	19.54	20.84	21.23
	8H	19.30	20.59	19.72	20.98	21.37	19.30	20.59	19.72	20.98	21.37
	12H	19.42	20.65	19.85	21.04	21.46	19.42	20.65	19.85	21.04	21.46
4H	2H	16.81	18.26	17.20	18.60	18.98	16.81	18.26	17.20	18.60	18.98
	3H	18.82	20.04	19.23	20.44	20.84	18.82	20.04	19.23	20.44	20.84
	4H	19.62	20.73	20.05	21.14	21.58	19.62	20.73	20.05	21.14	21.58
	6H	20.25	21.22	20.71	21.66	22.12	20.25	21.22	20.71	21.66	22.12
	8H	20.47	21.38	20.93	21.82	22.28	20.47	21.38	20.93	21.82	22.28
	12H	20.64	21.46	21.12	21.93	22.40	20.64	21.46	21.12	21.93	22.40
8H	4H	19.95	20.85	20.40	21.30	21.76	19.95	20.85	20.40	21.30	21.76
	6H	20.70	21.46	21.19	21.94	22.42	20.70	21.46	21.19	21.94	22.42
	8H	20.99	21.67	21.50	22.18	22.66	20.99	21.67	21.50	22.18	22.66
	12H	21.24	21.84	21.74	22.33	22.89	21.24	21.84	21.74	22.33	22.89
12H	4H	19.99	20.80	20.46	21.28	21.75	19.99	20.80	20.46	21.28	21.75
	6H	20.76	21.44	21.27	21.95	22.43	20.76	21.44	21.27	21.95	22.43
	8H	21.12	21.72	21.62	22.21	22.77	21.12	21.72	21.62	22.21	22.77