

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: P865628

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

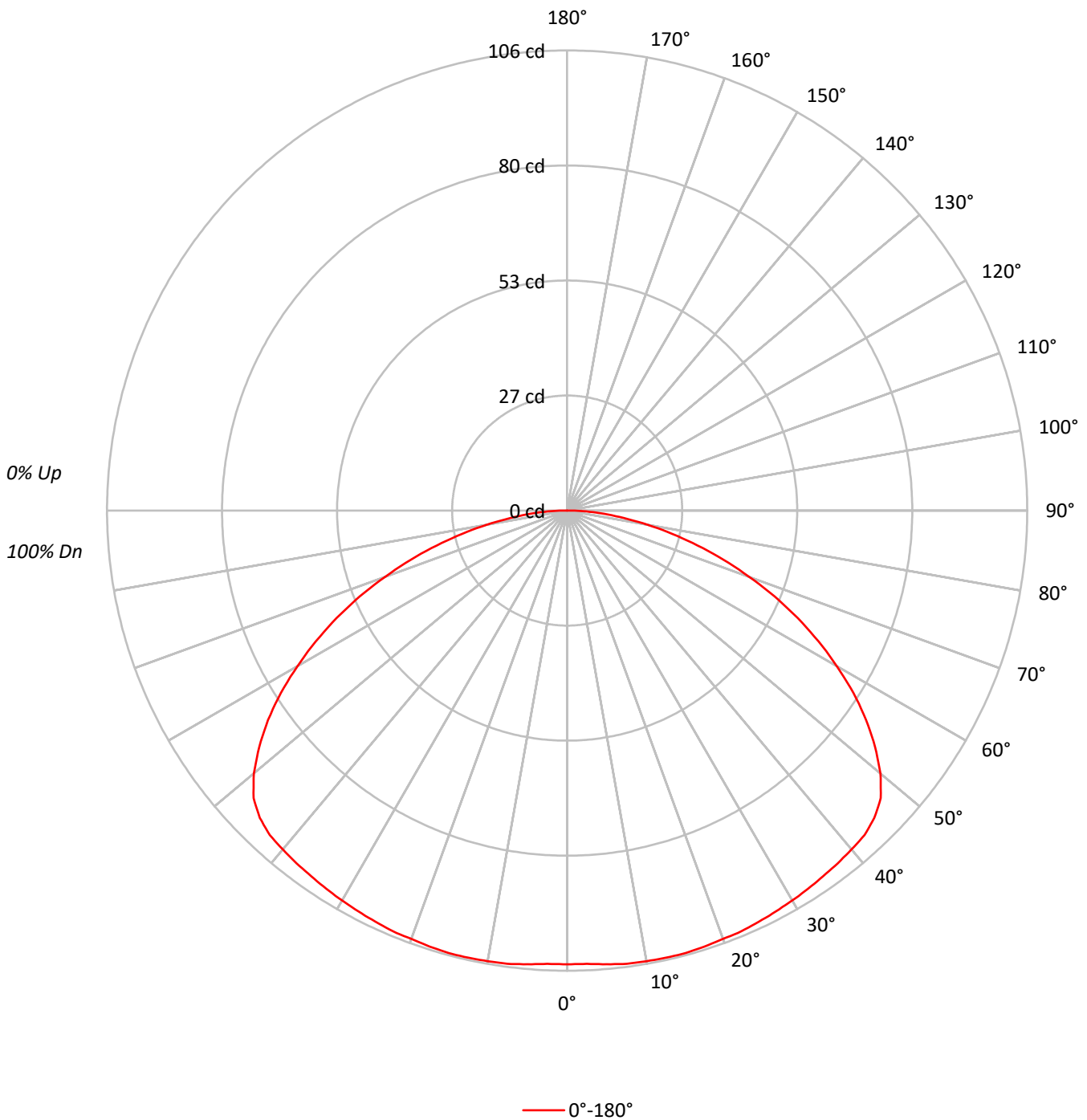
Lumens per Lamp: N/A
Luminaire Lumens: 405.1 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	88	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	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1963
5°	1978
10°	2010
15°	2052
20°	2099
25°	2166
30°	2249
35°	2357
40°	2499
45°	2659
50°	2753
55°	2754
60°	2697
65°	2605
70°	2450
75°	2257
80°	2034
85°	1810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2759 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.5
10°-20°	29.9	7.4
20°-30°	48.3	11.9
30°-40°	64.6	15.9
40°-50°	76.9	19.0
50°-60°	74.9	18.5
60°-70°	57.8	14.3
70°-80°	33.1	8.2
80°-90°	9.6	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°	88.2	21.8
0°-40°	152.8	37.7
0°-60°	304.6	75.2
0°-90°	405.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	405.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	104	
5°	105	10
15°	106	30
25°	104	48
35°	103	65
45°	100	77
55°	84	75
65°	59	58
75°	31	33
85°	8	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	104.5
2.5°	104.5
5°	104.9
7.5°	105.3
10°	105.4
12.5°	105.5
15°	105.5
17.5°	105.3
20°	105.0
22.5°	104.9
25°	104.5
27.5°	104.1
30°	103.7
32.5°	103.3
35°	102.8
37.5°	102.4
40°	101.9
42.5°	101.4
45°	100.1
47.5°	98.0
50°	94.2
52.5°	89.4
55°	84.1
57.5°	78.2
60°	71.8
62.5°	65.3
65°	58.6
67.5°	51.7
70°	44.6
72.5°	37.8
75°	31.1
77.5°	24.8
80°	18.8
82.5°	13.2
85°	8.4
87.5°	4.4
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	16.09	17.82	16.45	18.13	18.45	16.09	17.82	16.45	18.13	18.45
	3H	17.92	19.49	18.30	19.81	20.17	17.92	19.49	18.30	19.81	20.17
	4H	18.59	20.07	18.99	20.42	20.79	18.59	20.07	18.99	20.42	20.79
	6H	19.09	20.47	19.50	20.83	21.22	19.09	20.47	19.50	20.83	21.22
	8H	19.25	20.57	19.68	20.96	21.36	19.25	20.57	19.68	20.96	21.36
	12H	19.37	20.63	19.80	21.01	21.44	19.37	20.63	19.80	21.01	21.44
4H	2H	16.75	18.23	17.15	18.58	18.95	16.75	18.23	17.15	18.58	18.95
	3H	18.79	20.04	19.20	20.44	20.84	18.79	20.04	19.20	20.44	20.84
	4H	19.59	20.73	20.02	21.14	21.57	19.59	20.73	20.02	21.14	21.57
	6H	20.22	21.22	20.67	21.65	22.11	20.22	21.22	20.67	21.65	22.11
	8H	20.44	21.37	20.89	21.81	22.27	20.44	21.37	20.89	21.81	22.27
	12H	20.60	21.44	21.08	21.91	22.38	20.60	21.44	21.08	21.91	22.38
8H	4H	19.92	20.85	20.38	21.29	21.75	19.92	20.85	20.38	21.29	21.75
	6H	20.67	21.45	21.16	21.93	22.41	20.67	21.45	21.16	21.93	22.41
	8H	20.96	21.66	21.46	22.16	22.64	20.96	21.66	21.46	22.16	22.64
	12H	21.20	21.82	21.70	22.31	22.86	21.20	21.82	21.70	22.31	22.86
12H	4H	19.96	20.80	20.44	21.27	21.74	19.96	20.80	20.44	21.27	21.74
	6H	20.73	21.43	21.24	21.94	22.42	20.73	21.43	21.24	21.94	22.42
	8H	21.08	21.70	21.58	22.19	22.74	21.08	21.70	21.58	22.19	22.74