

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: P867017

Luminaire Tested: PRLX-2002-L-930-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-32L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

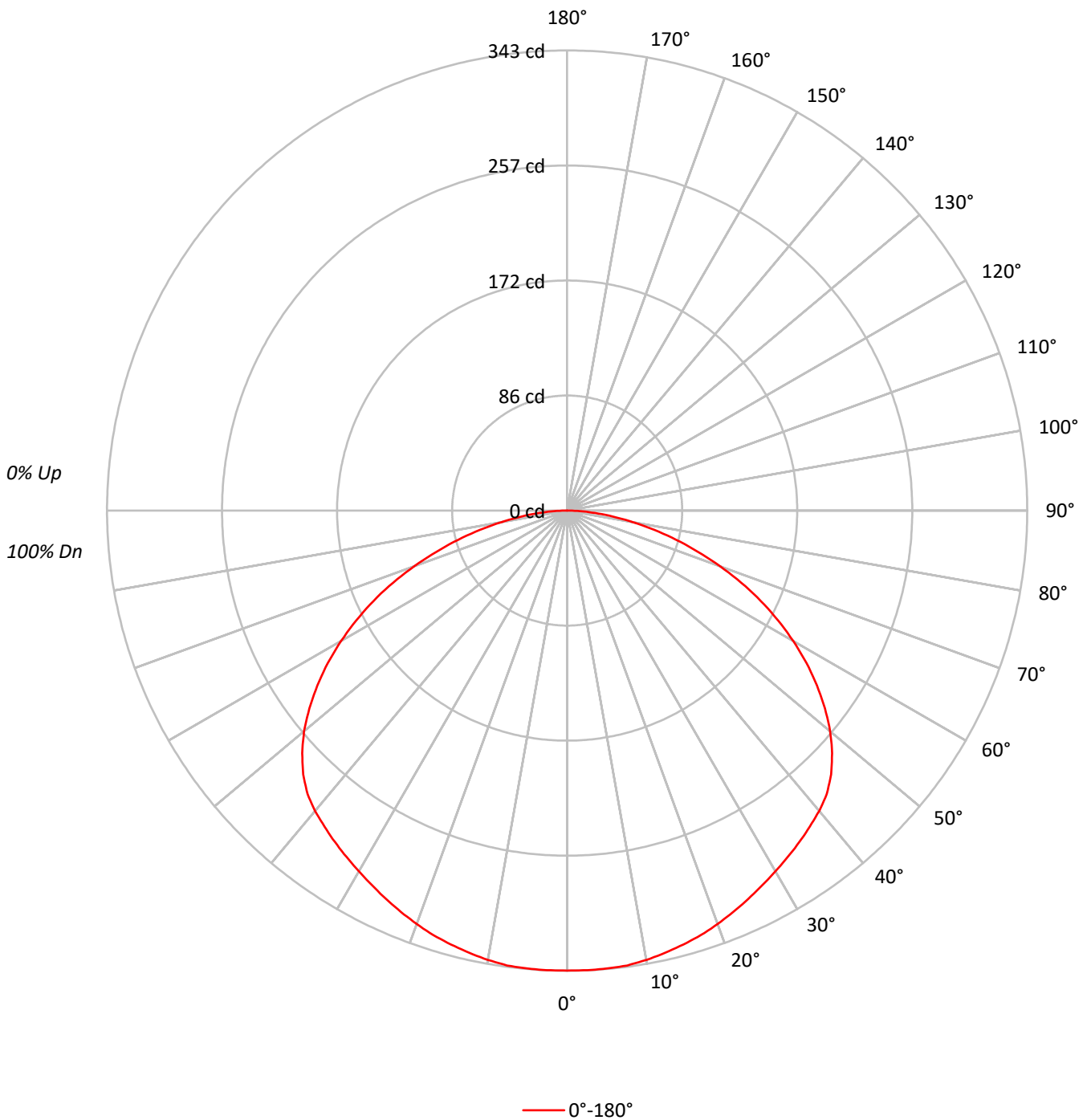
Lumens per Lamp: N/A
Luminaire Lumens: 1151.6 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: 0.5 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	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	48
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	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1692
5°	1697
10°	1704
15°	1710
20°	1722
25°	1739
30°	1769
35°	1817
40°	1883
45°	1941
50°	1965
55°	1955
60°	1921
65°	1860
70°	1747
75°	1603
80°	1429
85°	1172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1965 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	2.8
10°-20°	94.7	8.2
20°-30°	147.6	12.8
30°-40°	189.2	16.4
40°-50°	213.9	18.6
50°-60°	202.8	17.6
60°-70°	157.1	13.6
70°-80°	89.3	7.8
80°-90°	24.5	2.1
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°	274.9	23.9
0°-40°	464.1	40.3
0°-60°	880.7	76.5
0°-90°	1151.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	343	
5°	343	33
15°	335	95
25°	319	148
35°	302	189
45°	278	214
55°	227	203
65°	159	157
75°	84	89
85°	21	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	342.9
2.5°	342.9
5°	342.6
7.5°	342.0
10°	340.1
12.5°	337.6
15°	334.8
17.5°	331.8
20°	327.9
22.5°	323.8
25°	319.4
27.5°	314.9
30°	310.5
32.5°	306.1
35°	301.7
37.5°	297.0
40°	292.3
42.5°	286.5
45°	278.2
47.5°	267.9
50°	256.0
52.5°	242.2
55°	227.3
57.5°	211.5
60°	194.7
62.5°	177.2
65°	159.3
67.5°	140.5
70°	121.1
72.5°	102.3
75°	84.1
77.5°	66.6
80°	50.3
82.5°	34.8
85°	20.7
87.5°	9.4
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	14.77	16.47	15.14	16.78	17.09	14.77	16.47	15.14	16.78	17.09
	3H	16.61	18.15	16.99	18.47	18.83	16.61	18.15	16.99	18.47	18.83
	4H	17.28	18.73	17.68	19.08	19.45	17.28	18.73	17.68	19.08	19.45
	6H	17.77	19.11	18.18	19.48	19.87	17.77	19.11	18.18	19.48	19.87
	8H	17.92	19.21	18.34	19.60	19.99	17.92	19.21	18.34	19.60	19.99
	12H	18.02	19.26	18.45	19.64	20.07	18.02	19.26	18.45	19.64	20.07
4H	2H	15.43	16.89	15.83	17.23	17.61	15.43	16.89	15.83	17.23	17.61
	3H	17.48	18.70	17.89	19.10	19.50	17.48	18.70	17.89	19.10	19.50
	4H	18.28	19.38	18.71	19.80	20.23	18.28	19.38	18.71	19.80	20.23
	6H	18.89	19.86	19.34	20.30	20.75	18.89	19.86	19.34	20.30	20.75
	8H	19.09	20.00	19.55	20.44	20.90	19.09	20.00	19.55	20.44	20.90
	12H	19.23	20.05	19.71	20.53	20.99	19.23	20.05	19.71	20.53	20.99
8H	4H	18.59	19.50	19.05	19.94	20.41	18.59	19.50	19.05	19.94	20.41
	6H	19.33	20.08	19.82	20.57	21.04	19.33	20.08	19.82	20.57	21.04
	8H	19.60	20.28	20.11	20.78	21.27	19.60	20.28	20.11	20.78	21.27
	12H	19.81	20.41	20.32	20.90	21.46	19.81	20.41	20.32	20.90	21.46
12H	4H	18.63	19.45	19.11	19.92	20.39	18.63	19.45	19.11	19.92	20.39
	6H	19.38	20.07	19.89	20.57	21.05	19.38	20.07	19.89	20.57	21.05
	8H	19.71	20.32	20.22	20.80	21.36	19.71	20.32	20.22	20.80	21.36