

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: P866228

Luminaire Tested: PRLX-2002-M-930-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-930-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

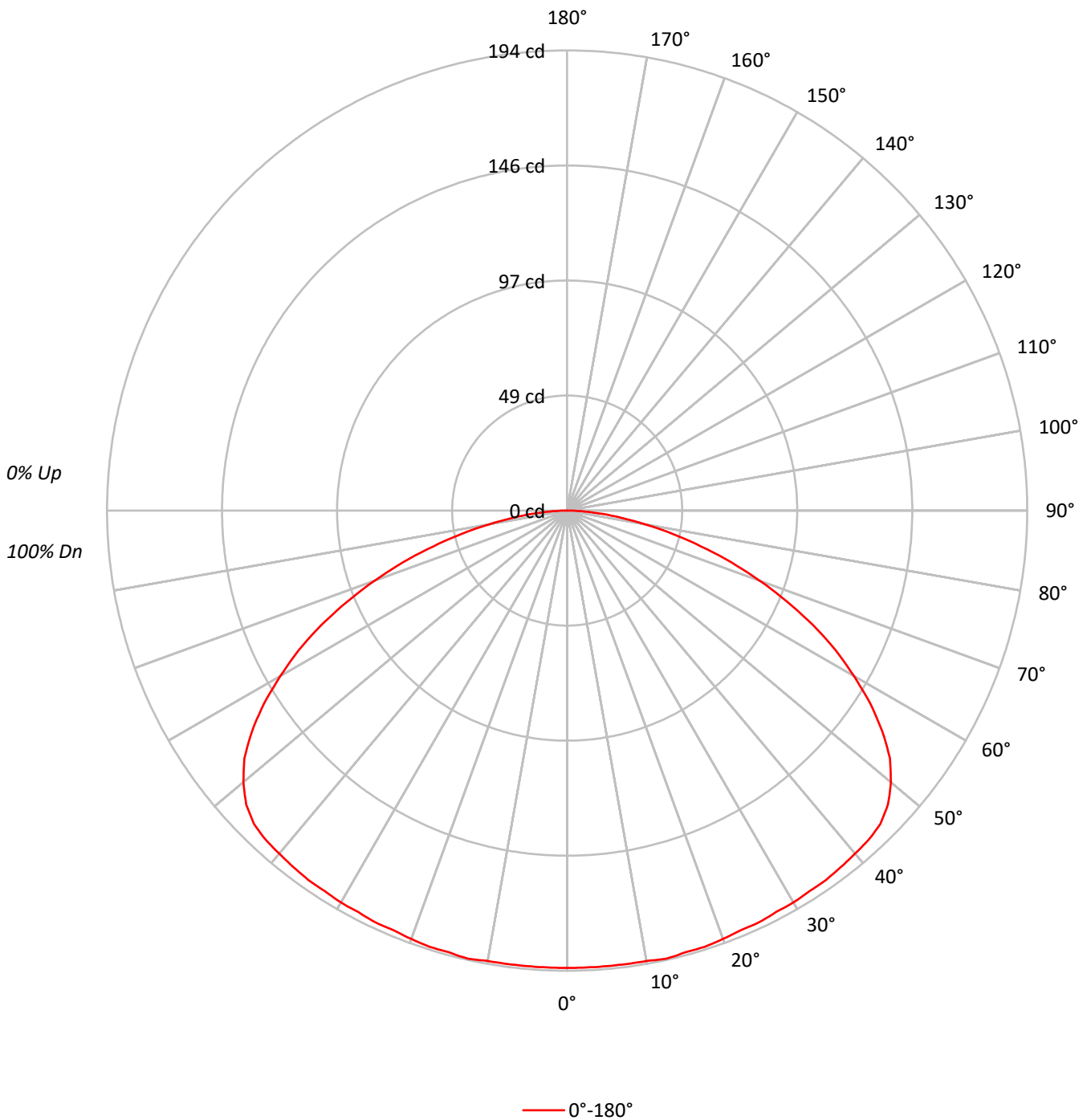
Lumens per Lamp: N/A
Luminaire Lumens: 759.6 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1534
5°	1540
10°	1558
15°	1588
20°	1627
25°	1681
30°	1753
35°	1847
40°	1961
45°	2102
50°	2206
55°	2250
60°	2221
65°	2154
70°	2010
75°	1798
80°	1521
85°	1214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	2.4
10°-20°	54.7	7.2
20°-30°	88.5	11.7
30°-40°	119.3	15.7
40°-50°	143.6	18.9
50°-60°	144.2	19.0
60°-70°	112.7	14.8
70°-80°	62.4	8.2
80°-90°	15.9	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°	161.6	21.3
0°-40°	280.9	37.0
0°-60°	568.6	74.9
0°-90°	759.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	193	
5°	193	18
15°	193	55
25°	192	89
35°	190	119
45°	187	144
55°	162	144
65°	114	113
75°	58	62
85°	13	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	192.8
2.5°	192.8
5°	192.8
7.5°	192.8
10°	192.8
12.5°	193.5
15°	192.8
17.5°	192.8
20°	192.2
22.5°	191.5
25°	191.5
27.5°	190.8
30°	190.8
32.5°	190.2
35°	190.2
37.5°	189.5
40°	188.8
42.5°	188.2
45°	186.8
47.5°	183.5
50°	178.2
52.5°	171.5
55°	162.2
57.5°	151.6
60°	139.6
62.5°	127.7
65°	114.4
67.5°	100.4
70°	86.4
72.5°	72.5
75°	58.5
77.5°	45.9
80°	33.2
82.5°	22.6
85°	13.3
87.5°	6.0
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	15.51	17.25	15.88	17.56	17.88	15.51	17.25	15.88	17.56	17.88
	3H	17.34	18.92	17.72	19.24	19.60	17.34	18.92	17.72	19.24	19.60
	4H	17.99	19.47	18.38	19.82	20.19	17.99	19.47	18.38	19.82	20.19
	6H	18.43	19.81	18.84	20.18	20.56	18.43	19.81	18.84	20.18	20.56
	8H	18.56	19.88	18.98	20.27	20.67	18.56	19.88	18.98	20.27	20.67
	12H	18.64	19.91	19.07	20.29	20.72	18.64	19.91	19.07	20.29	20.72
4H	2H	16.18	17.67	16.58	18.02	18.39	16.18	17.67	16.58	18.02	18.39
	3H	18.22	19.48	18.63	19.87	20.27	18.22	19.48	18.63	19.87	20.27
	4H	18.98	20.12	19.41	20.53	20.96	18.98	20.12	19.41	20.53	20.96
	6H	19.54	20.54	19.99	20.98	21.43	19.54	20.54	19.99	20.98	21.43
	8H	19.71	20.65	20.17	21.09	21.55	19.71	20.65	20.17	21.09	21.55
	12H	19.84	20.68	20.31	21.15	21.62	19.84	20.68	20.31	21.15	21.62
8H	4H	19.29	20.22	19.75	20.66	21.13	19.29	20.22	19.75	20.66	21.13
	6H	19.96	20.73	20.45	21.22	21.69	19.96	20.73	20.45	21.22	21.69
	8H	20.19	20.89	20.69	21.39	21.87	20.19	20.89	20.69	21.39	21.87
	12H	20.37	20.99	20.87	21.48	22.03	20.37	20.99	20.87	21.48	22.03
12H	4H	19.32	20.17	19.80	20.64	21.11	19.32	20.17	19.80	20.64	21.11
	6H	20.00	20.70	20.51	21.21	21.69	20.00	20.70	20.51	21.21	21.69
	8H	20.29	20.91	20.79	21.40	21.95	20.29	20.91	20.79	21.40	21.95