

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: P866230

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

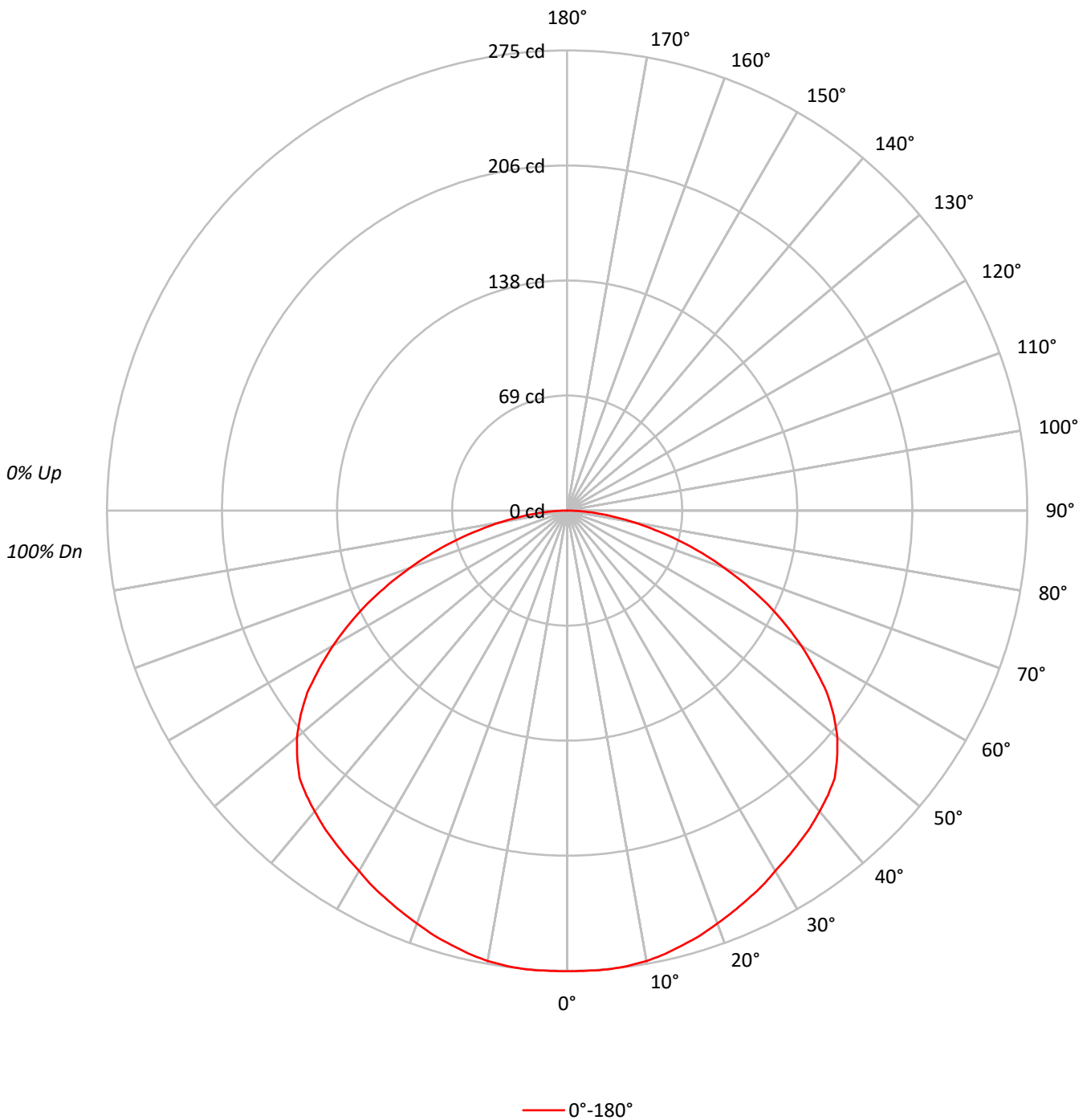
Lumens per Lamp: N/A
Luminaire Lumens: 936.9 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): 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	64	59		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	55	50		60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2190
5°	2199
10°	2208
15°	2212
20°	2223
25°	2247
30°	2285
35°	2350
40°	2437
45°	2544
50°	2609
55°	2628
60°	2571
65°	2479
70°	2319
75°	2127
80°	1860
85°	1515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	2.8
10°-20°	75.9	8.1
20°-30°	118.3	12.6
30°-40°	151.8	16.2
40°-50°	173.7	18.5
50°-60°	168.2	18.0
60°-70°	129.9	13.9
70°-80°	73.2	7.8
80°-90°	19.6	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°	220.4	23.5
0°-40°	372.3	39.7
0°-60°	714.2	76.2
0°-90°	936.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	275	
5°	275	26
15°	269	76
25°	256	118
35°	242	152
45°	226	174
55°	190	168
65°	132	130
75°	69	73
85°	17	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	275.3
2.5°	275.3
5°	275.3
7.5°	274.6
10°	273.3
12.5°	271.3
15°	268.6
17.5°	266.0
20°	262.6
22.5°	259.3
25°	256.0
27.5°	252.7
30°	248.7
32.5°	245.4
35°	242.0
37.5°	238.7
40°	234.7
42.5°	230.7
45°	226.1
47.5°	218.8
50°	210.8
52.5°	200.8
55°	189.5
57.5°	175.5
60°	161.6
62.5°	146.9
65°	131.7
67.5°	115.7
70°	99.7
72.5°	84.4
75°	69.2
77.5°	53.9
80°	40.6
82.5°	27.9
85°	16.6
87.5°	7.3
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	15.84	17.55	16.21	17.86	18.17	15.84	17.55	16.21	17.86	18.17
	3H	17.66	19.20	18.04	19.53	19.89	17.66	19.20	18.04	19.53	19.89
	4H	18.32	19.78	18.72	20.13	20.50	18.32	19.78	18.72	20.13	20.50
	6H	18.79	20.14	19.20	20.51	20.90	18.79	20.14	19.20	20.51	20.90
	8H	18.93	20.23	19.36	20.62	21.02	18.93	20.23	19.36	20.62	21.02
	12H	19.03	20.27	19.46	20.65	21.08	19.03	20.27	19.46	20.65	21.08
4H	2H	16.50	17.96	16.90	18.31	18.68	16.50	17.96	16.90	18.31	18.68
	3H	18.53	19.76	18.94	20.15	20.55	18.53	19.76	18.94	20.15	20.55
	4H	19.32	20.43	19.75	20.84	21.28	19.32	20.43	19.75	20.84	21.28
	6H	19.91	20.88	20.36	21.32	21.77	19.91	20.88	20.36	21.32	21.77
	8H	20.10	21.01	20.56	21.45	21.91	20.10	21.01	20.56	21.45	21.91
	12H	20.23	21.06	20.71	21.53	22.00	20.23	21.06	20.71	21.53	22.00
8H	4H	19.63	20.54	20.09	20.98	21.45	19.63	20.54	20.09	20.98	21.45
	6H	20.33	21.09	20.83	21.58	22.05	20.33	21.09	20.83	21.58	22.05
	8H	20.59	21.28	21.10	21.78	22.26	20.59	21.28	21.10	21.78	22.26
	12H	20.80	21.40	21.30	21.89	22.45	20.80	21.40	21.30	21.89	22.45
12H	4H	19.67	20.49	20.14	20.96	21.43	19.67	20.49	20.14	20.96	21.43
	6H	20.39	21.07	20.89	21.58	22.06	20.39	21.07	20.89	21.58	22.06
	8H	20.70	21.31	21.21	21.80	22.35	20.70	21.31	21.21	21.80	22.35