

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: P865606

Luminaire Tested: PRLX-2002-S-927-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-927-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

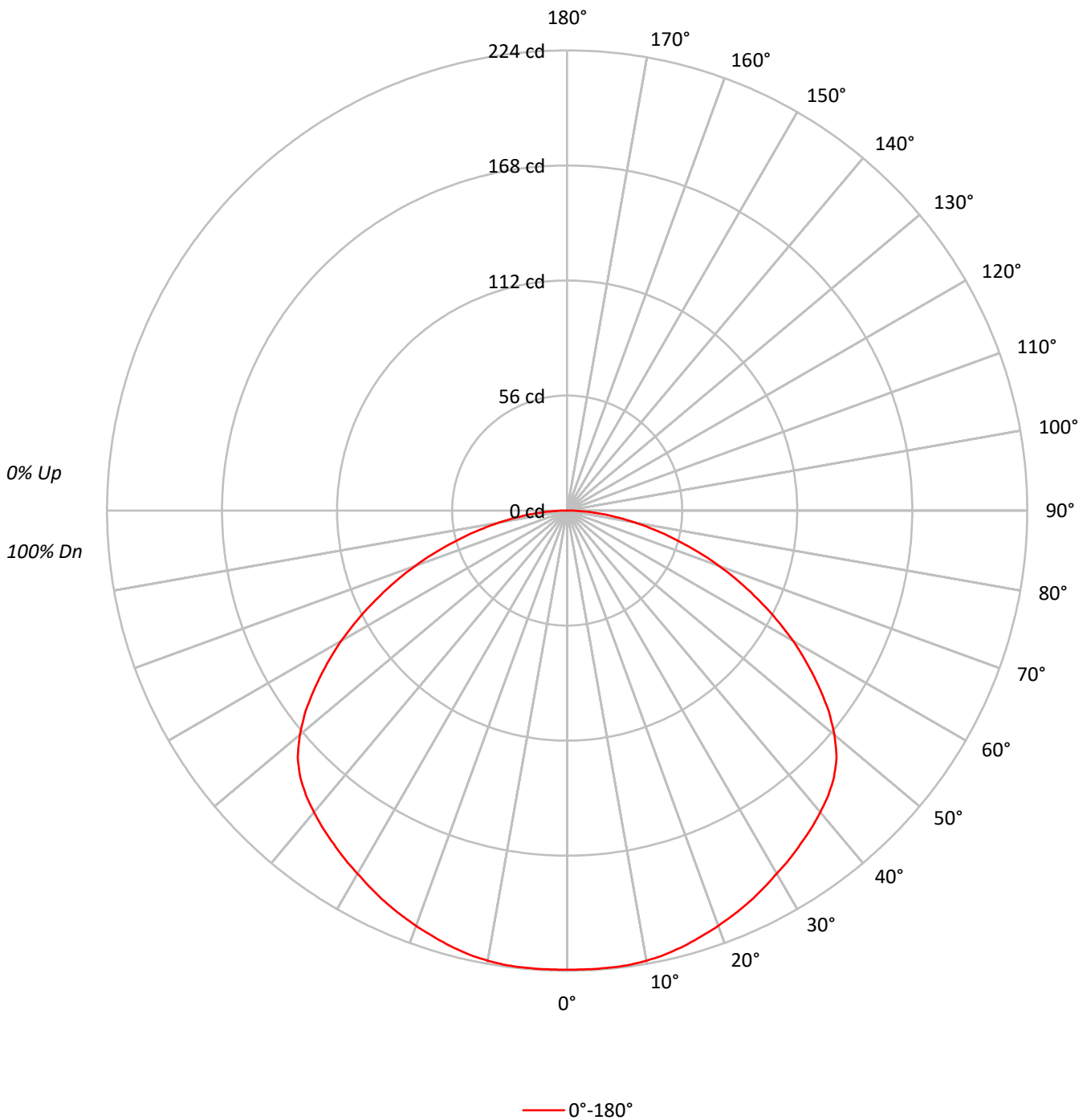
Lumens per Lamp: N/A
Luminaire Lumens: 756.9 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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: 0.333 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	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	47
5	74	61	51	45	72	60	51	44	57	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	26		38	31	26		37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4198
5°	4214
10°	4244
15°	4269
20°	4300
25°	4355
30°	4427
35°	4543
40°	4701
45°	4880
50°	4965
55°	4903
60°	4775
65°	4565
70°	4317
75°	3992
80°	3613
85°	3276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4965 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	2.8
10°-20°	62.0	8.2
20°-30°	97.0	12.8
30°-40°	124.3	16.4
40°-50°	141.2	18.7
50°-60°	133.6	17.6
60°-70°	101.7	13.4
70°-80°	58.5	7.7
80°-90°	17.2	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°	180.3	23.8
0°-40°	304.6	40.2
0°-60°	579.4	76.6
0°-90°	756.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	756.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	224	
5°	224	21
15°	220	62
25°	210	97
35°	198	124
45°	184	141
55°	150	134
65°	103	102
75°	55	58
85°	15	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	223.5
2.5°	223.5
5°	223.5
7.5°	223.3
10°	222.5
12.5°	221.3
15°	219.5
17.5°	217.3
20°	215.1
22.5°	212.7
25°	210.1
27.5°	207.1
30°	204.1
32.5°	201.3
35°	198.1
37.5°	195.1
40°	191.7
42.5°	188.1
45°	183.7
47.5°	177.9
50°	169.9
52.5°	160.5
55°	149.7
57.5°	138.5
60°	127.1
62.5°	114.9
65°	102.7
67.5°	90.8
70°	78.6
72.5°	66.8
75°	55.0
77.5°	44.0
80°	33.4
82.5°	23.6
85°	15.2
87.5°	7.8
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	17.93	19.63	18.29	19.94	20.25	17.93	19.63	18.29	19.94	20.25
	3H	19.74	21.27	20.11	21.60	21.96	19.74	21.27	20.11	21.60	21.96
	4H	20.41	21.86	20.81	22.21	22.58	20.41	21.86	20.81	22.21	22.58
	6H	20.91	22.26	21.32	22.62	23.01	20.91	22.26	21.32	22.62	23.01
	8H	21.08	22.37	21.50	22.75	23.15	21.08	22.37	21.50	22.75	23.15
	12H	21.20	22.43	21.62	22.81	23.24	21.20	22.43	21.62	22.81	23.24
4H	2H	18.57	20.02	18.97	20.37	20.74	18.57	20.02	18.97	20.37	20.74
	3H	20.60	21.82	21.01	22.22	22.62	20.60	21.82	21.01	22.22	22.62
	4H	21.40	22.51	21.83	22.92	23.35	21.40	22.51	21.83	22.92	23.35
	6H	22.03	23.00	22.49	23.44	23.90	22.03	23.00	22.49	23.44	23.90
	8H	22.25	23.16	22.71	23.60	24.06	22.25	23.16	22.71	23.60	24.06
	12H	22.42	23.24	22.90	23.71	24.18	22.42	23.24	22.90	23.71	24.18
8H	4H	21.72	22.63	22.18	23.07	23.54	21.72	22.63	22.18	23.07	23.54
	6H	22.48	23.24	22.97	23.72	24.20	22.48	23.24	22.97	23.72	24.20
	8H	22.77	23.45	23.28	23.96	24.44	22.77	23.45	23.28	23.96	24.44
	12H	23.02	23.62	23.52	24.11	24.67	23.02	23.62	23.52	24.11	24.67
12H	4H	21.76	22.58	22.24	23.06	23.52	21.76	22.58	22.24	23.06	23.52
	6H	22.54	23.22	23.05	23.73	24.21	22.54	23.22	23.05	23.73	24.21
	8H	22.89	23.50	23.40	23.99	24.54	22.89	23.50	23.40	23.99	24.54