

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: P866142

Luminaire Tested: PRLX-2001-M-940-75L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-940-75L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

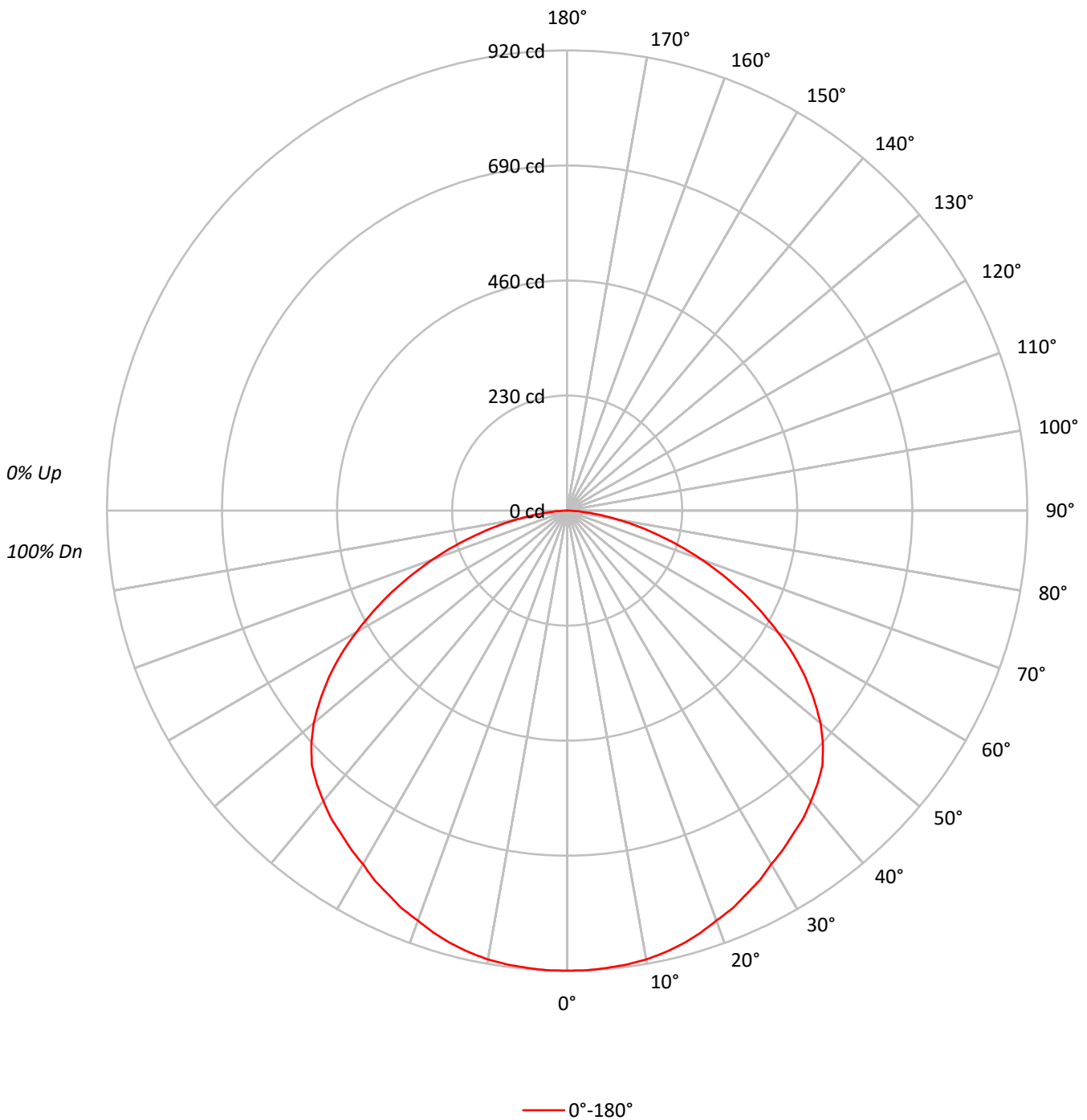
Lumens per Lamp: N/A
Luminaire Lumens: 2925.1 lumens
Efficiency: N/A
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7805
5°	7817
10°	7852
15°	7873
20°	7878
25°	7926
30°	8000
35°	8167
40°	8399
45°	8660
50°	8730
55°	8605
60°	8262
65°	7785
70°	7108
75°	6144
80°	4946
85°	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 8730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.0
10°-20°	253.0	8.6
20°-30°	391.1	13.4
30°-40°	494.7	16.9
40°-50°	553.9	18.9
50°-60°	517.6	17.7
60°-70°	382.8	13.1
70°-80°	200.9	6.9
80°-90°	43.6	1.5
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°	731.5	25.0
0°-40°	1226.2	41.9
0°-60°	2297.7	78.6
0°-90°	2925.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	920	
5°	918	87
15°	896	253
25°	846	391
35°	788	495
45°	722	554
55°	582	518
65°	388	383
75°	187	201
85°	34	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	919.8
2.5°	919.8
5°	917.6
7.5°	915.5
10°	911.2
12.5°	904.7
15°	896.1
17.5°	885.3
20°	872.4
22.5°	861.6
25°	846.5
27.5°	833.6
30°	816.4
32.5°	803.5
35°	788.4
37.5°	775.4
40°	758.2
42.5°	741.0
45°	721.6
47.5°	693.6
50°	661.3
52.5°	622.5
55°	581.6
57.5°	536.4
60°	486.8
62.5°	437.3
65°	387.7
67.5°	336.0
70°	286.5
72.5°	236.9
75°	187.4
77.5°	144.3
80°	101.2
82.5°	64.6
85°	34.5
87.5°	10.8
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	19.91	21.58	20.27	21.89	22.21	19.91	21.58	20.27	21.89	22.21
	3H	21.57	23.08	21.95	23.41	23.77	21.57	23.08	21.95	23.41	23.77
	4H	22.13	23.55	22.53	23.90	24.28	22.13	23.55	22.53	23.90	24.28
	6H	22.49	23.81	22.90	24.18	24.57	22.49	23.81	22.90	24.18	24.57
	8H	22.58	23.84	23.00	24.23	24.63	22.58	23.84	23.00	24.23	24.63
	12H	22.62	23.83	23.05	24.21	24.64	22.62	23.83	23.05	24.21	24.64
4H	2H	20.52	21.94	20.91	22.29	22.66	20.52	21.94	20.91	22.29	22.66
	3H	22.38	23.58	22.79	23.97	24.37	22.38	23.58	22.79	23.97	24.37
	4H	23.05	24.13	23.49	24.55	24.98	23.05	24.13	23.49	24.55	24.98
	6H	23.52	24.47	23.98	24.91	25.36	23.52	24.47	23.98	24.91	25.36
	8H	23.64	24.53	24.10	24.97	25.43	23.64	24.53	24.10	24.97	25.43
	12H	23.72	24.51	24.20	24.98	25.45	23.72	24.51	24.20	24.98	25.45
8H	4H	23.32	24.20	23.78	24.64	25.10	23.32	24.20	23.78	24.64	25.10
	6H	23.87	24.60	24.36	25.09	25.57	23.87	24.60	24.36	25.09	25.57
	8H	24.04	24.70	24.55	25.20	25.69	24.04	24.70	24.55	25.20	25.69
	12H	24.16	24.74	24.66	25.23	25.79	24.16	24.74	24.66	25.23	25.79
12H	4H	23.34	24.13	23.82	24.60	25.07	23.34	24.13	23.82	24.60	25.07
	6H	23.90	24.56	24.41	25.06	25.55	23.90	24.56	24.41	25.06	25.55
	8H	24.11	24.69	24.62	25.18	25.74	24.11	24.69	24.62	25.18	25.74