

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: P867138

Luminaire Tested: PRLX-2002-L-940-15L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-15L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

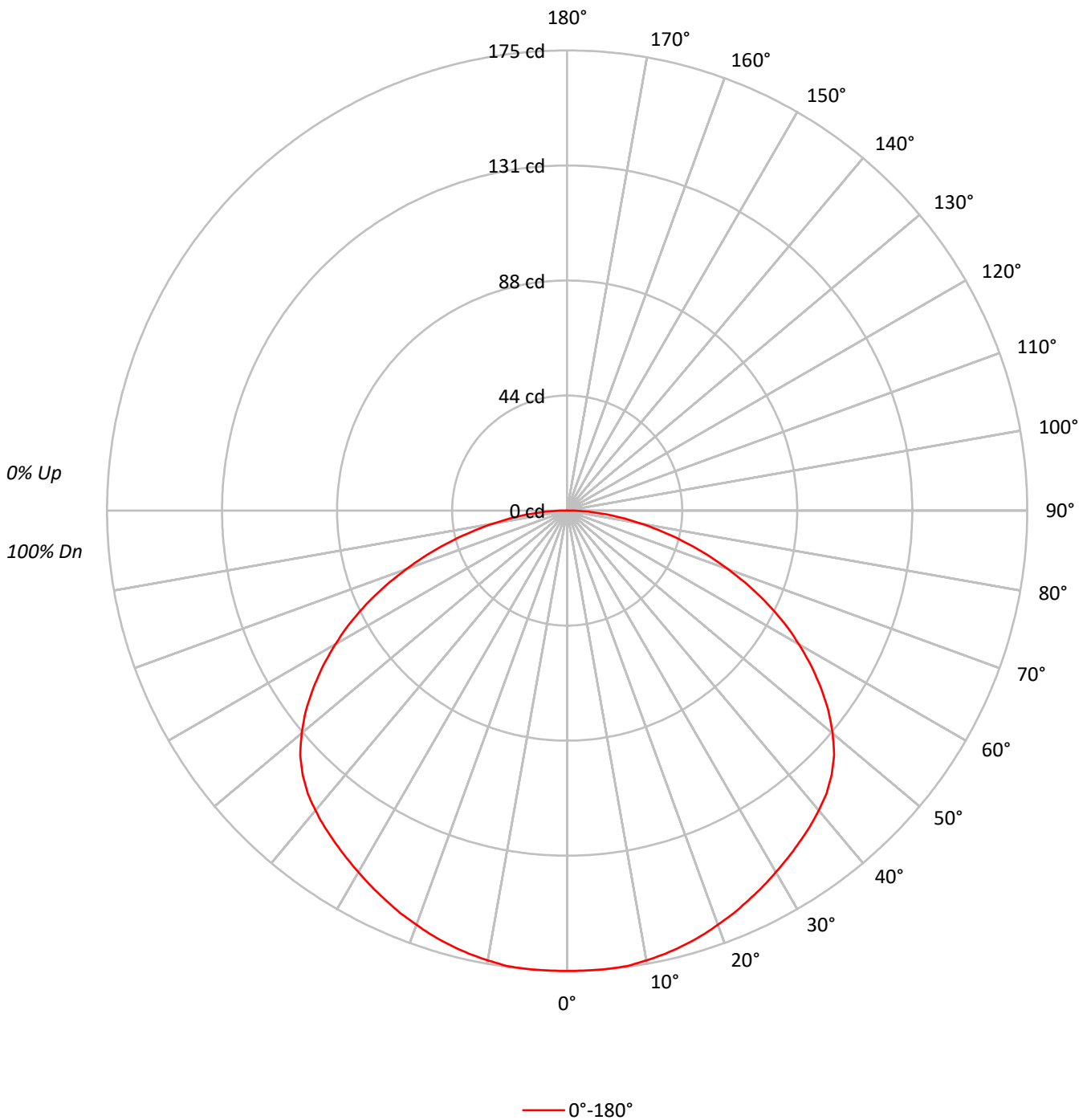
Lumens per Lamp: N/A
Luminaire Lumens: 598.8 lumens
Efficiency: N/A
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	864
5°	867
10°	870
15°	874
20°	880
25°	890
30°	905
35°	928
40°	959
45°	992
50°	1012
55°	1014
60°	1005
65°	983
70°	938
75°	883
80°	813
85°	747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	2.8
10°-20°	48.4	8.1
20°-30°	75.5	12.6
30°-40°	96.6	16.1
40°-50°	109.5	18.3
50°-60°	105.2	17.6
60°-70°	83.1	13.9
70°-80°	49.0	8.2
80°-90°	14.9	2.5
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°	140.6	23.5
0°-40°	237.2	39.6
0°-60°	451.8	75.4
0°-90°	598.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	598.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	175	
5°	175	17
15°	171	48
25°	163	76
35°	154	97
45°	142	109
55°	118	105
65°	84	83
75°	46	49
85°	13	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	175.1
2.5°	175.1
5°	175.0
7.5°	174.7
10°	173.7
12.5°	172.6
15°	171.2
17.5°	169.6
20°	167.6
22.5°	165.7
25°	163.4
27.5°	161.2
30°	158.8
32.5°	156.4
35°	154.0
37.5°	151.6
40°	148.9
42.5°	146.0
45°	142.2
47.5°	137.7
50°	131.8
52.5°	125.3
55°	117.9
57.5°	110.1
60°	101.8
62.5°	93.4
65°	84.2
67.5°	74.8
70°	65.0
72.5°	55.7
75°	46.3
77.5°	37.1
80°	28.6
82.5°	20.5
85°	13.2
87.5°	6.8
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	12.49	14.20	12.86	14.52	14.83	12.49	14.20	12.86	14.52	14.83
	3H	14.41	15.96	14.79	16.29	16.64	14.41	15.96	14.79	16.29	16.64
	4H	15.13	16.60	15.53	16.94	17.32	15.13	16.60	15.53	16.94	17.32
	6H	15.68	17.04	16.09	17.40	17.79	15.68	17.04	16.09	17.40	17.79
	8H	15.87	17.17	16.29	17.56	17.95	15.87	17.17	16.29	17.56	17.95
	12H	16.00	17.25	16.43	17.63	18.06	16.00	17.25	16.43	17.63	18.06
4H	2H	13.18	14.64	13.58	14.99	15.36	13.18	14.64	13.58	14.99	15.36
	3H	15.31	16.54	15.72	16.94	17.34	15.31	16.54	15.72	16.94	17.34
	4H	16.16	17.28	16.59	17.70	18.13	16.16	17.28	16.59	17.70	18.13
	6H	16.84	17.83	17.29	18.27	18.72	16.84	17.83	17.29	18.27	18.72
	8H	17.08	18.00	17.54	18.45	18.91	17.08	18.00	17.54	18.45	18.91
	12H	17.27	18.10	17.75	18.58	19.04	17.27	18.10	17.75	18.58	19.04
8H	4H	16.51	17.43	16.97	17.87	18.33	16.51	17.43	16.97	17.87	18.33
	6H	17.32	18.09	17.81	18.57	19.05	17.32	18.09	17.81	18.57	19.05
	8H	17.64	18.33	18.15	18.84	19.32	17.64	18.33	18.15	18.84	19.32
	12H	17.92	18.53	18.42	19.02	19.57	17.92	18.53	18.42	19.02	19.57
12H	4H	16.55	17.39	17.03	17.86	18.33	16.55	17.39	17.03	17.86	18.33
	6H	17.39	18.08	17.90	18.59	19.07	17.39	18.08	17.90	18.59	19.07
	8H	17.78	18.39	18.28	18.88	19.43	17.78	18.39	18.28	18.88	19.43