

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: P866878

Luminaire Tested: PRLX-2001-L-940-15L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-940-15L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

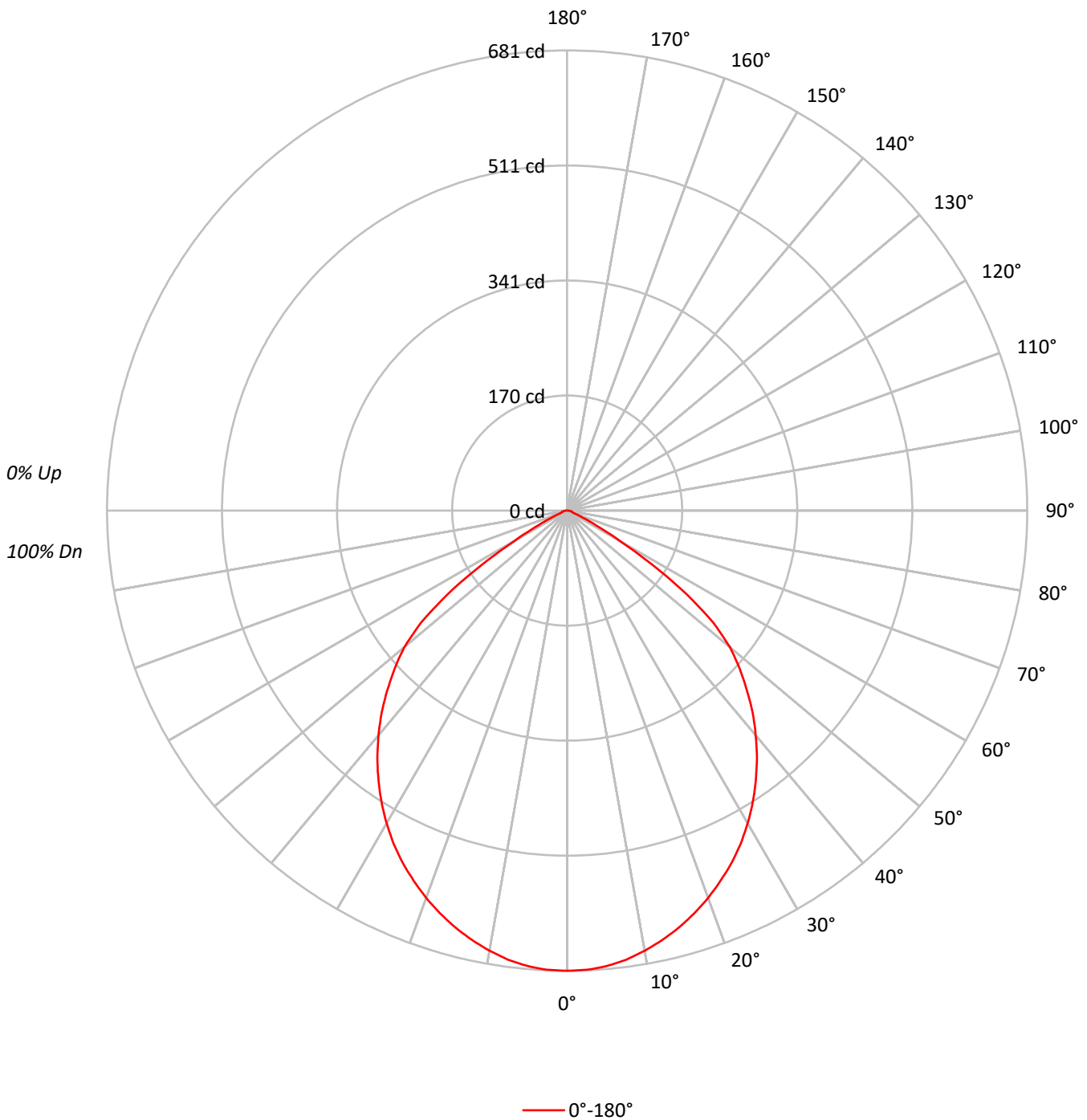
Lumens per Lamp: N/A
Luminaire Lumens: 1337.5 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3723
5°	3712
10°	3672
15°	3616
20°	3549
25°	3471
30°	3373
35°	3249
40°	3099
45°	2910
50°	2673
55°	2064
60°	998
65°	376
70°	149
75°	163
80°	186
85°	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	4.8
10°-20°	180.0	13.5
20°-30°	264.8	19.8
30°-40°	304.1	22.7
40°-50°	289.9	21.7
50°-60°	187.1	14.0
60°-70°	36.0	2.7
70°-80°	8.1	0.6
80°-90°	3.5	0.3
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°	508.9	38.0
0°-40°	813.0	60.8
0°-60°	1290.0	96.4
0°-90°	1337.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	676	64
15°	639	180
25°	576	265
35°	487	304
45°	376	290
55°	217	187
65°	29	36
75°	8	8
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	681.0
2.5°	680.2
5°	676.5
7.5°	670.3
10°	661.5
12.5°	650.9
15°	638.9
17.5°	625.2
20°	610.0
22.5°	593.2
25°	575.5
27.5°	556.0
30°	534.4
32.5°	511.4
35°	486.9
37.5°	461.5
40°	434.2
42.5°	406.7
45°	376.4
47.5°	346.4
50°	314.3
52.5°	272.9
55°	216.6
57.5°	150.9
60°	91.3
62.5°	52.3
65°	29.1
67.5°	15.2
70°	9.3
72.5°	8.4
75°	7.7
77.5°	6.9
80°	5.9
82.5°	4.8
85°	3.4
87.5°	1.7
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	12.47	13.87	12.84	14.19	14.50	12.47	13.87	12.84	14.19	14.50
	3H	12.40	13.63	12.77	13.96	14.32	12.40	13.63	12.77	13.96	14.32
	4H	12.35	13.50	12.75	13.85	14.23	12.35	13.50	12.75	13.85	14.23
	6H	12.31	13.36	12.72	13.73	14.12	12.31	13.36	12.72	13.73	14.12
	8H	12.28	13.28	12.71	13.67	14.07	12.28	13.28	12.71	13.67	14.07
	12H	12.26	13.21	12.69	13.59	14.02	12.26	13.21	12.69	13.59	14.02
4H	2H	12.35	13.50	12.75	13.85	14.23	12.35	13.50	12.75	13.85	14.23
	3H	12.29	13.22	12.70	13.62	14.02	12.29	13.22	12.70	13.62	14.02
	4H	12.24	13.07	12.68	13.49	13.93	12.24	13.07	12.68	13.49	13.93
	6H	12.22	12.93	12.68	13.37	13.84	12.22	12.93	12.68	13.37	13.84
	8H	12.19	12.86	12.66	13.30	13.77	12.19	12.86	12.66	13.30	13.77
	12H	12.18	12.76	12.66	13.25	13.72	12.18	12.76	12.66	13.25	13.72
8H	4H	12.13	12.80	12.60	13.24	13.71	12.13	12.80	12.60	13.24	13.71
	6H	12.10	12.65	12.60	13.15	13.63	12.10	12.65	12.60	13.15	13.63
	8H	12.08	12.58	12.60	13.09	13.59	12.08	12.58	12.60	13.09	13.59
	12H	12.08	12.53	12.60	13.02	13.59	12.08	12.53	12.60	13.02	13.59
12H	4H	12.09	12.68	12.58	13.16	13.64	12.09	12.68	12.58	13.16	13.64
	6H	12.05	12.55	12.57	13.06	13.55	12.05	12.55	12.57	13.06	13.55
	8H	12.06	12.50	12.57	12.99	13.56	12.06	12.50	12.57	12.99	13.56