

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: P866862

Luminaire Tested: PRLX-2001-L-940-117L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866862
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: Prenalux
Catalog Number: PRLX-2001-L-940-117L-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 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

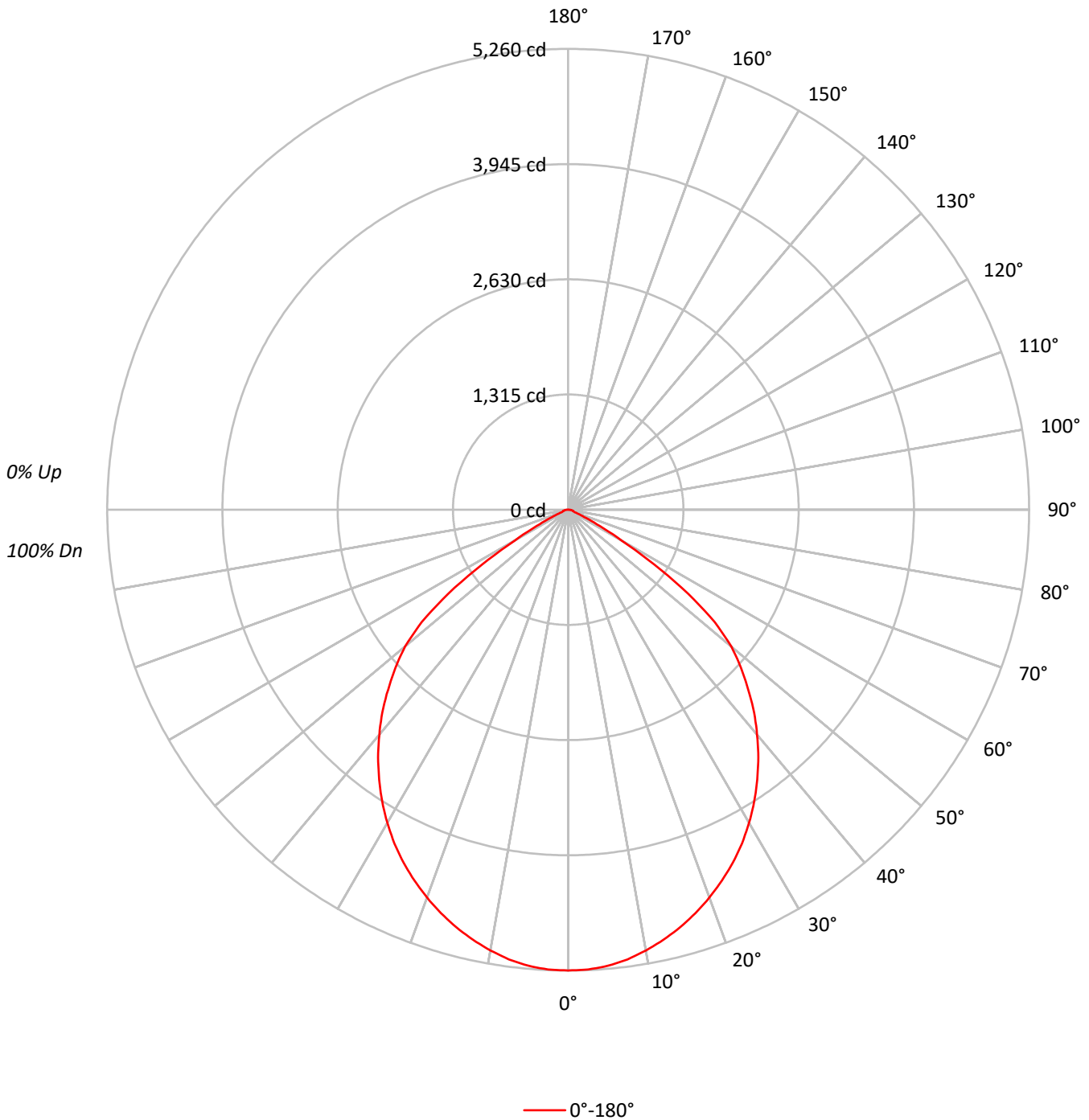
Lumens per Lamp: N/A
Luminaire Lumens: 10330.7 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	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°	28755
5°	28675
10°	28360
15°	27931
20°	27409
25°	26813
30°	26058
35°	25099
40°	23931
45°	22475
50°	20649
55°	15945
60°	7708
65°	2909
70°	1146
75°	1261
80°	1436
85°	1637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.1	4.8
10°-20°	1390.4	13.5
20°-30°	2045.1	19.8
30°-40°	2348.7	22.7
40°-50°	2239.0	21.7
50°-60°	1445.4	14.0
60°-70°	277.7	2.7
70°-80°	62.5	0.6
80°-90°	26.9	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°	3930.6	38.0
0°-40°	6279.3	60.8
0°-60°	9963.6	96.4
0°-90°	10330.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10330.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5260	
5°	5225	495
15°	4935	1390
25°	4445	2045
35°	3761	2349
45°	2907	2239
55°	1673	1445
65°	225	278
75°	60	63
85°	26	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5259.9
2.5°	5253.4
5°	5225.2
7.5°	5177.4
10°	5108.9
12.5°	5027.4
15°	4935.1
17.5°	4828.6
20°	4711.3
22.5°	4582.1
25°	4445.2
27.5°	4294.2
30°	4128.0
32.5°	3949.8
35°	3760.8
37.5°	3564.2
40°	3353.4
42.5°	3141.6
45°	2907.0
47.5°	2675.6
50°	2427.9
52.5°	2107.4
55°	1672.9
57.5°	1165.6
60°	705.0
62.5°	404.1
65°	224.9
67.5°	117.3
70°	71.7
72.5°	65.2
75°	59.7
77.5°	53.2
80°	45.6
82.5°	36.9
85°	26.1
87.5°	13.0
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	19.57	20.98	19.94	21.29	21.60	19.57	20.98	19.94	21.29	21.60
	3H	19.50	20.73	19.88	21.06	21.43	19.50	20.73	19.88	21.06	21.43
	4H	19.45	20.60	19.85	20.95	21.33	19.45	20.60	19.85	20.95	21.33
	6H	19.41	20.46	19.82	20.83	21.22	19.41	20.46	19.82	20.83	21.22
	8H	19.38	20.38	19.81	20.77	21.17	19.38	20.38	19.81	20.77	21.17
	12H	19.36	20.31	19.79	20.69	21.12	19.36	20.31	19.79	20.69	21.12
4H	2H	19.45	20.60	19.86	20.95	21.33	19.45	20.60	19.86	20.95	21.33
	3H	19.39	20.32	19.81	20.72	21.13	19.39	20.32	19.81	20.72	21.13
	4H	19.35	20.17	19.78	20.59	21.03	19.35	20.17	19.78	20.59	21.03
	6H	19.32	20.03	19.78	20.48	20.94	19.32	20.03	19.78	20.48	20.94
	8H	19.30	19.96	19.76	20.40	20.88	19.30	19.96	19.76	20.40	20.88
	12H	19.28	19.87	19.76	20.35	20.82	19.28	19.87	19.76	20.35	20.82
8H	4H	19.24	19.90	19.71	20.35	20.82	19.24	19.90	19.71	20.35	20.82
	6H	19.21	19.75	19.71	20.25	20.73	19.21	19.75	19.71	20.25	20.73
	8H	19.19	19.68	19.71	20.20	20.69	19.19	19.68	19.71	20.20	20.69
	12H	19.19	19.63	19.70	20.12	20.69	19.19	19.63	19.70	20.12	20.69
12H	4H	19.20	19.78	19.68	20.27	20.74	19.20	19.78	19.68	20.27	20.74
	6H	19.15	19.65	19.67	20.16	20.65	19.15	19.65	19.67	20.16	20.65
	8H	19.16	19.60	19.67	20.10	20.67	19.16	19.60	19.67	20.10	20.67