

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: P866362

Luminaire Tested: PRLX-2002-M-940-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

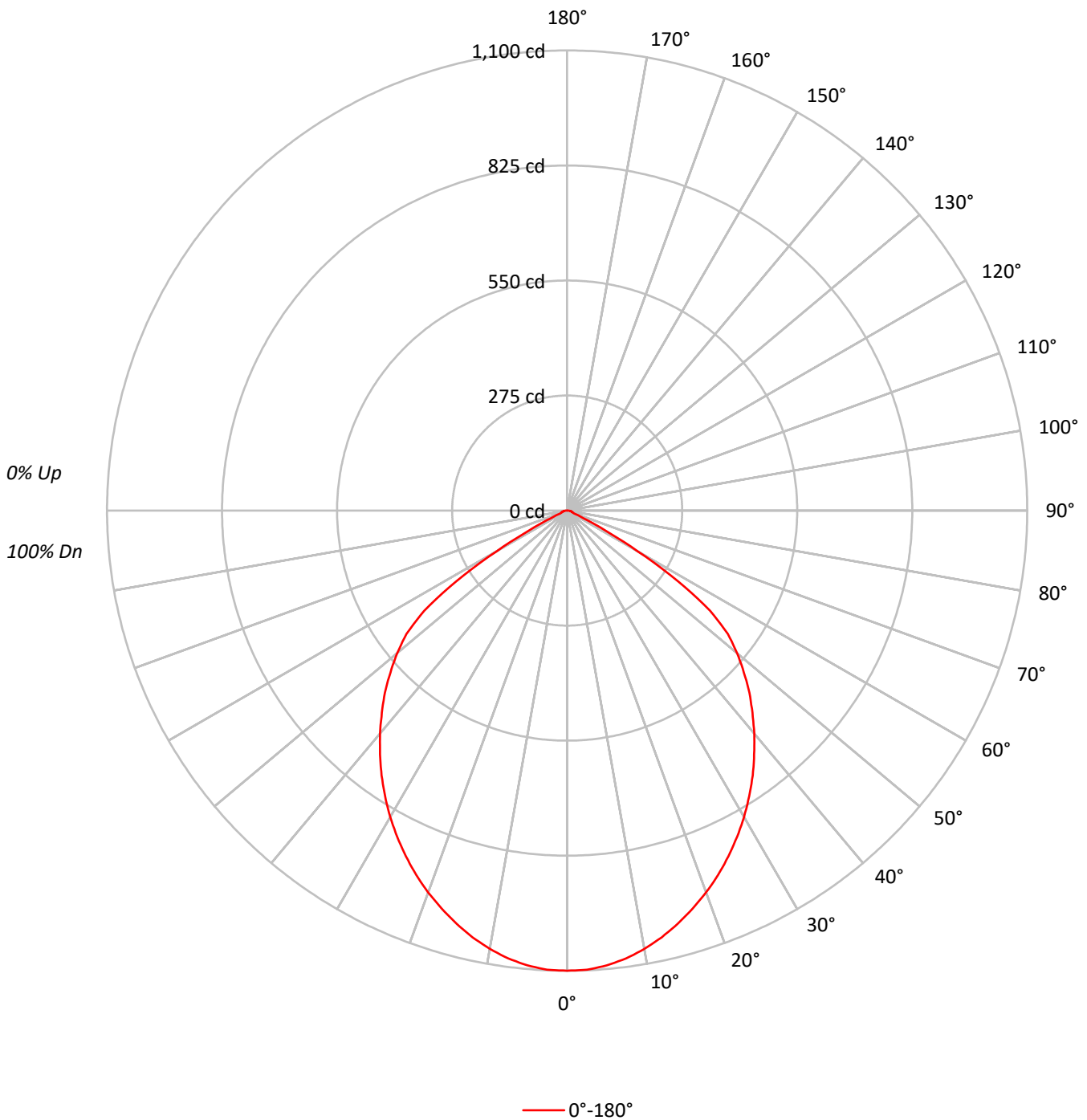
Lumens per Lamp: N/A
Luminaire Lumens: 2203.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8751
5°	8716
10°	8596
15°	8421
20°	8225
25°	8005
30°	7770
35°	7510
40°	7225
45°	6932
50°	6567
55°	5787
60°	3085
65°	811
70°	335
75°	375
80°	426
85°	520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	4.7
10°-20°	287.9	13.1
20°-30°	419.8	19.1
30°-40°	483.2	21.9
40°-50°	474.1	21.5
50°-60°	351.2	15.9
60°-70°	64.8	2.9
70°-80°	12.8	0.6
80°-90°	5.8	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°	811.1	36.8
0°-40°	1294.3	58.8
0°-60°	2119.6	96.2
0°-90°	2203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1100	
5°	1091	103
15°	1022	288
25°	912	420
35°	773	483
45°	616	474
55°	417	351
65°	43	65
75°	12	13
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1100.0
2.5°	1098.6
5°	1091.4
7.5°	1079.9
10°	1064.1
12.5°	1044.7
15°	1022.4
17.5°	997.3
20°	971.5
22.5°	942.7
25°	911.9
27.5°	879.6
30°	845.8
32.5°	809.9
35°	773.3
37.5°	734.5
40°	695.7
42.5°	655.5
45°	616.1
47.5°	573.0
50°	530.6
52.5°	483.9
55°	417.2
57.5°	315.2
60°	193.9
62.5°	99.8
65°	43.1
67.5°	18.7
70°	14.4
72.5°	13.6
75°	12.2
77.5°	10.8
80°	9.3
82.5°	7.9
85°	5.7
87.5°	2.9
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	17.13	18.56	17.50	18.87	19.19	17.13	18.56	17.50	18.87	19.19
	3H	17.03	18.29	17.41	18.62	18.98	17.03	18.29	17.41	18.62	18.98
	4H	16.98	18.15	17.38	18.50	18.88	16.98	18.15	17.38	18.50	18.88
	6H	16.92	17.99	17.34	18.36	18.76	16.92	17.99	17.34	18.36	18.76
	8H	16.89	17.91	17.32	18.30	18.70	16.89	17.91	17.32	18.30	18.70
	12H	16.86	17.84	17.30	18.22	18.65	16.86	17.84	17.30	18.22	18.65
4H	2H	16.98	18.15	17.39	18.50	18.88	16.98	18.15	17.39	18.50	18.88
	3H	16.90	17.84	17.31	18.24	18.64	16.90	17.84	17.31	18.24	18.64
	4H	16.84	17.67	17.27	18.09	18.53	16.84	17.67	17.27	18.09	18.53
	6H	16.79	17.51	17.25	17.96	18.42	16.79	17.51	17.25	17.96	18.42
	8H	16.76	17.43	17.22	17.88	18.35	16.76	17.43	17.22	17.88	18.35
	12H	16.73	17.33	17.21	17.81	18.29	16.73	17.33	17.21	17.81	18.29
8H	4H	16.72	17.40	17.19	17.84	18.31	16.72	17.40	17.19	17.84	18.31
	6H	16.66	17.22	17.16	17.71	18.19	16.66	17.22	17.16	17.71	18.19
	8H	16.62	17.13	17.14	17.65	18.14	16.62	17.13	17.14	17.65	18.14
	12H	16.61	17.06	17.12	17.56	18.13	16.61	17.06	17.12	17.56	18.13
12H	4H	16.68	17.28	17.16	17.76	18.23	16.68	17.28	17.16	17.76	18.23
	6H	16.60	17.11	17.12	17.62	18.11	16.60	17.11	17.12	17.62	18.11
	8H	16.59	17.04	17.10	17.54	18.11	16.59	17.04	17.10	17.54	18.11