

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: P865694

Luminaire Tested: PRLX-2002-S-940-05L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-05L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

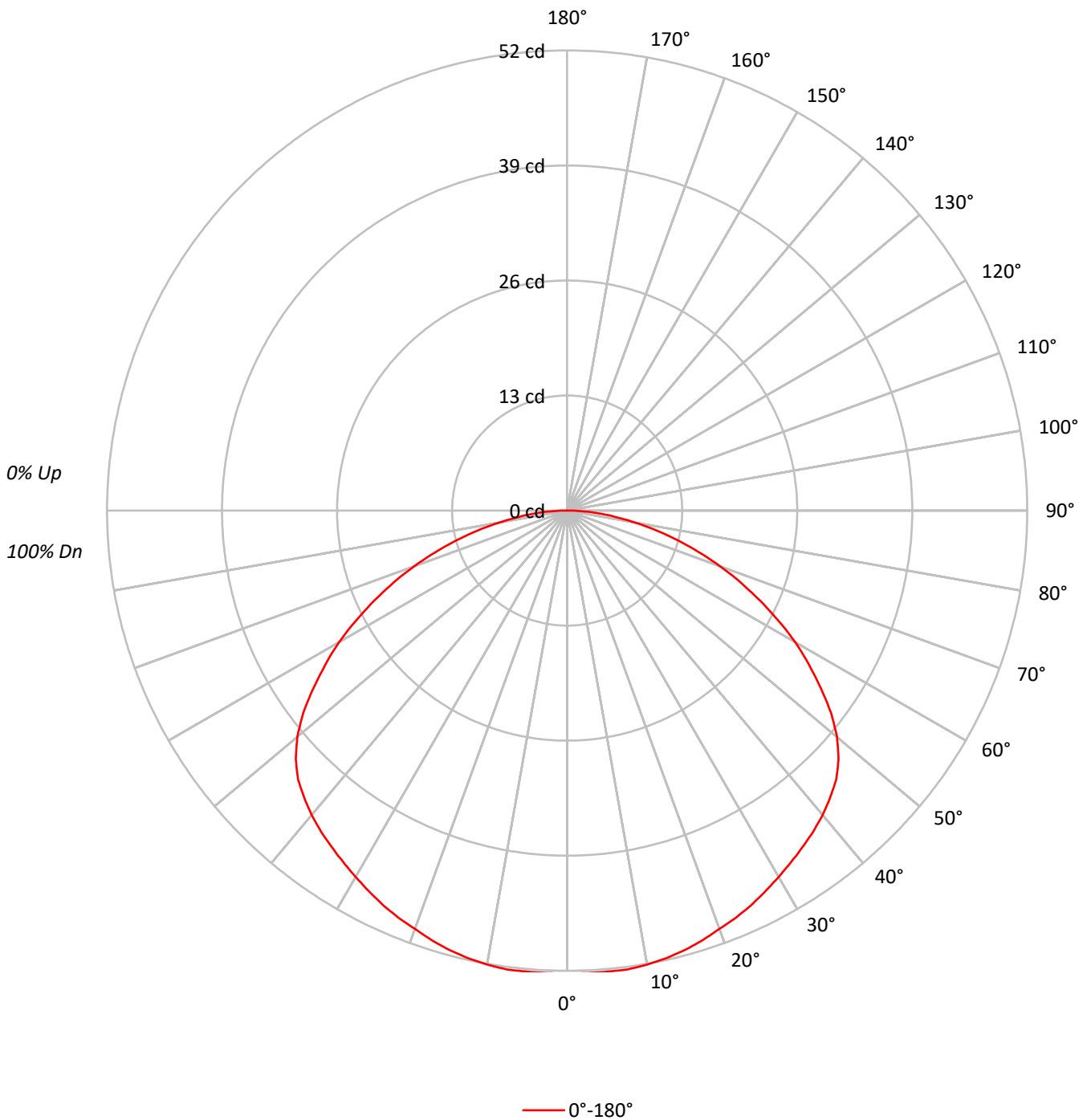
Lumens per Lamp: N/A
Luminaire Lumens: 177.2 lumens
Efficiency: N/A
Efficacy: 28.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865694

CATALOG NUMBER: PRLX-2002-S-940-05L-G-U-S-X-X-GREY-X

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	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	982
5°	986
10°	994
15°	1000
20°	1005
25°	1020
30°	1037
35°	1064
40°	1101
45°	1142
50°	1163
55°	1146
60°	1120
65°	1067
70°	1011
75°	936
80°	844
85°	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	2.8
10°-20°	14.5	8.2
20°-30°	22.7	12.8
30°-40°	29.1	16.4
40°-50°	33.0	18.7
50°-60°	31.3	17.7
60°-70°	23.8	13.4
70°-80°	13.7	7.7
80°-90°	4.0	2.3
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°	42.2	23.8
0°-40°	71.3	40.3
0°-60°	135.6	76.6
0°-90°	177.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	177.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	52	
5°	52	5
15°	51	15
25°	49	23
35°	46	29
45°	43	33
55°	35	31
65°	24	24
75°	13	14
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	52.3
2.5°	52.3
5°	52.3
7.5°	52.3
10°	52.1
12.5°	51.8
15°	51.4
17.5°	50.9
20°	50.3
22.5°	49.8
25°	49.2
27.5°	48.5
30°	47.8
32.5°	47.1
35°	46.4
37.5°	45.7
40°	44.9
42.5°	44.0
45°	43.0
47.5°	41.6
50°	39.8
52.5°	37.6
55°	35.0
57.5°	32.4
60°	29.8
62.5°	26.9
65°	24.0
67.5°	21.2
70°	18.4
72.5°	15.6
75°	12.9
77.5°	10.3
80°	7.8
82.5°	5.5
85°	3.6
87.5°	1.8
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	12.88	14.58	13.25	14.89	15.21	12.88	14.58	13.25	14.89	15.21
	3H	14.69	16.22	15.06	16.55	16.91	14.69	16.22	15.06	16.55	16.91
	4H	15.36	16.81	15.76	17.16	17.53	15.36	16.81	15.76	17.16	17.53
	6H	15.86	17.21	16.27	17.57	17.96	15.86	17.21	16.27	17.57	17.96
	8H	16.03	17.31	16.45	17.70	18.10	16.03	17.31	16.45	17.70	18.10
	12H	16.15	17.38	16.58	17.76	18.19	16.15	17.38	16.58	17.76	18.19
4H	2H	13.52	14.97	13.92	15.32	15.69	13.52	14.97	13.92	15.32	15.69
	3H	15.55	16.77	15.96	17.17	17.56	15.55	16.77	15.96	17.17	17.56
	4H	16.35	17.46	16.78	17.87	18.31	16.35	17.46	16.78	17.87	18.31
	6H	16.98	17.96	17.44	18.39	18.85	16.98	17.96	17.44	18.39	18.85
	8H	17.20	18.11	17.66	18.55	19.01	17.20	18.11	17.66	18.55	19.01
	12H	17.37	18.19	17.85	18.66	19.13	17.37	18.19	17.85	18.66	19.13
8H	4H	16.68	17.58	17.13	18.03	18.49	16.68	17.58	17.13	18.03	18.49
	6H	17.43	18.19	17.92	18.68	19.15	17.43	18.19	17.92	18.68	19.15
	8H	17.72	18.40	18.23	18.91	19.39	17.72	18.40	18.23	18.91	19.39
	12H	17.97	18.58	18.48	19.07	19.62	17.97	18.58	18.48	19.07	19.62
12H	4H	16.71	17.53	17.19	18.01	18.48	16.71	17.53	17.19	18.01	18.48
	6H	17.49	18.18	18.00	18.68	19.16	17.49	18.18	18.00	18.68	19.16
	8H	17.84	18.45	18.35	18.93	19.49	17.84	18.45	18.35	18.93	19.49