

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: P865717

Luminaire Tested: PRLX-2002-S-940-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

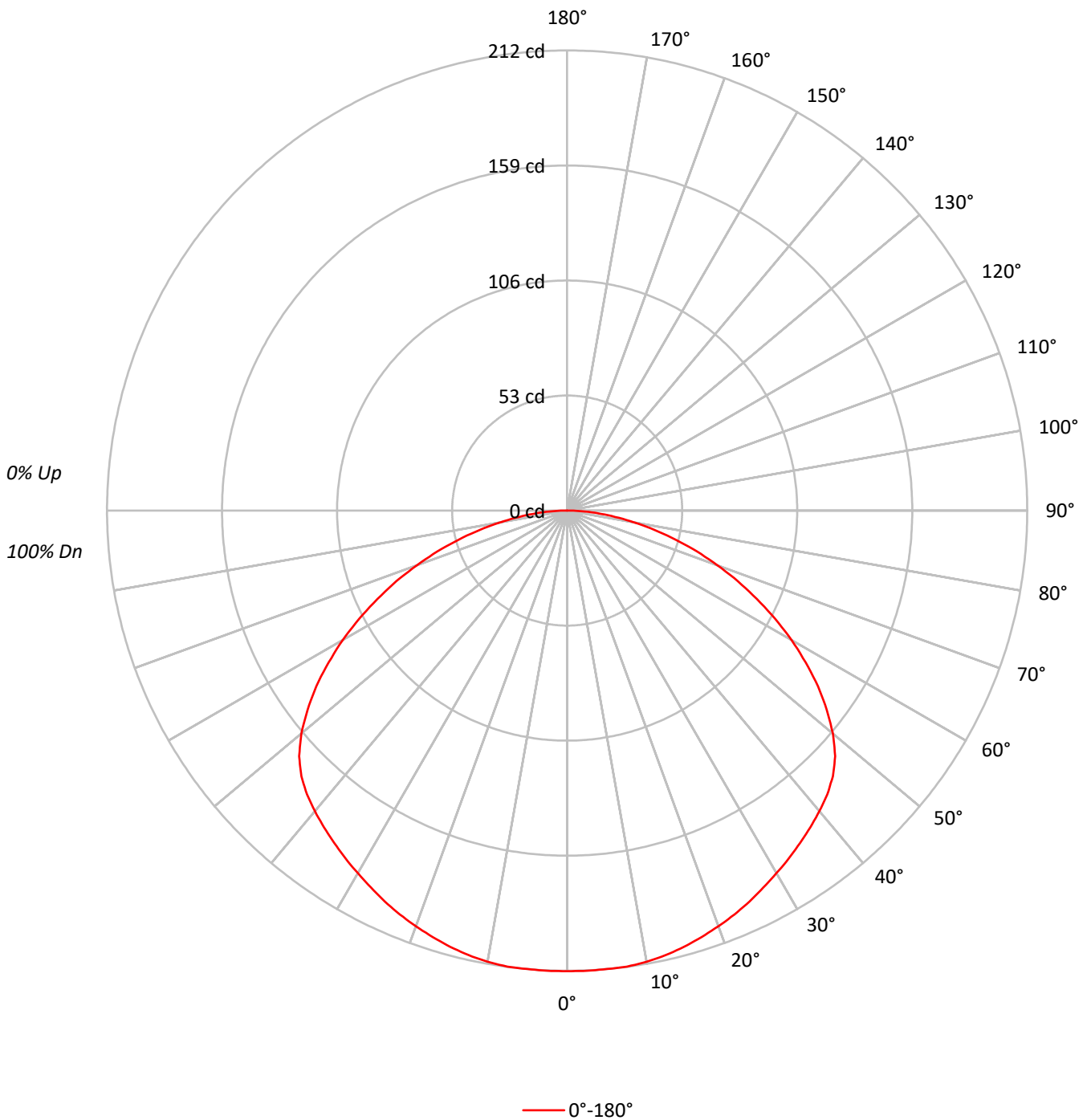
Lumens per Lamp: N/A
Luminaire Lumens: 713.3 lumens
Efficiency: N/A
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3986
5°	3997
10°	4027
15°	4047
20°	4074
25°	4120
30°	4184
35°	4288
40°	4433
45°	4598
50°	4670
55°	4621
60°	4486
65°	4285
70°	4037
75°	3752
80°	3386
85°	3017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	2.8
10°-20°	58.8	8.2
20°-30°	91.8	12.9
30°-40°	117.3	16.4
40°-50°	133.0	18.7
50°-60°	125.7	17.6
60°-70°	95.5	13.4
70°-80°	54.9	7.7
80°-90°	16.1	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°	170.8	23.9
0°-40°	288.1	40.4
0°-60°	546.8	76.7
0°-90°	713.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	212	
5°	212	20
15°	208	59
25°	199	92
35°	187	117
45°	173	133
55°	141	126
65°	96	96
75°	52	55
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	212.2
2.5°	212.2
5°	212.0
7.5°	211.9
10°	211.1
12.5°	209.8
15°	208.1
17.5°	206.0
20°	203.8
22.5°	201.4
25°	198.8
27.5°	195.8
30°	192.9
32.5°	190.1
35°	187.0
37.5°	184.0
40°	180.8
42.5°	177.4
45°	173.1
47.5°	167.5
50°	159.8
52.5°	150.8
55°	141.1
57.5°	130.3
60°	119.4
62.5°	108.0
65°	96.4
67.5°	85.2
70°	73.5
72.5°	62.7
75°	51.7
77.5°	41.4
80°	31.3
82.5°	22.3
85°	14.0
87.5°	7.3
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	17.71	19.41	18.08	19.72	20.04	17.71	19.41	18.08	19.72	20.04
	3H	19.51	21.04	19.88	21.37	21.73	19.51	21.04	19.88	21.37	21.73
	4H	20.18	21.63	20.58	21.98	22.35	20.18	21.63	20.58	21.98	22.35
	6H	20.68	22.03	21.09	22.39	22.78	20.68	22.03	21.09	22.39	22.78
	8H	20.85	22.14	21.27	22.53	22.92	20.85	22.14	21.27	22.53	22.92
	12H	20.97	22.20	21.40	22.58	23.01	20.97	22.20	21.40	22.58	23.01
4H	2H	18.35	19.80	18.75	20.15	20.52	18.35	19.80	18.75	20.15	20.52
	3H	20.37	21.59	20.78	21.98	22.38	20.37	21.59	20.78	21.98	22.38
	4H	21.17	22.28	21.60	22.69	23.12	21.17	22.28	21.60	22.69	23.12
	6H	21.80	22.77	22.26	23.21	23.67	21.80	22.77	22.26	23.21	23.67
	8H	22.02	22.93	22.48	23.37	23.83	22.02	22.93	22.48	23.37	23.83
	12H	22.19	23.01	22.67	23.48	23.95	22.19	23.01	22.67	23.48	23.95
8H	4H	21.49	22.40	21.95	22.84	23.31	21.49	22.40	21.95	22.84	23.31
	6H	22.25	23.01	22.74	23.49	23.97	22.25	23.01	22.74	23.49	23.97
	8H	22.54	23.22	23.05	23.73	24.21	22.54	23.22	23.05	23.73	24.21
	12H	22.79	23.39	23.29	23.88	24.44	22.79	23.39	23.29	23.88	24.44
12H	4H	21.53	22.35	22.01	22.82	23.29	21.53	22.35	22.01	22.82	23.29
	6H	22.31	22.99	22.82	23.50	23.98	22.31	22.99	22.82	23.50	23.98
	8H	22.67	23.27	23.17	23.76	24.32	22.67	23.27	23.17	23.76	24.32