

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: P866393

Luminaire Tested: PRLX-2002-M-940-65L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-65L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

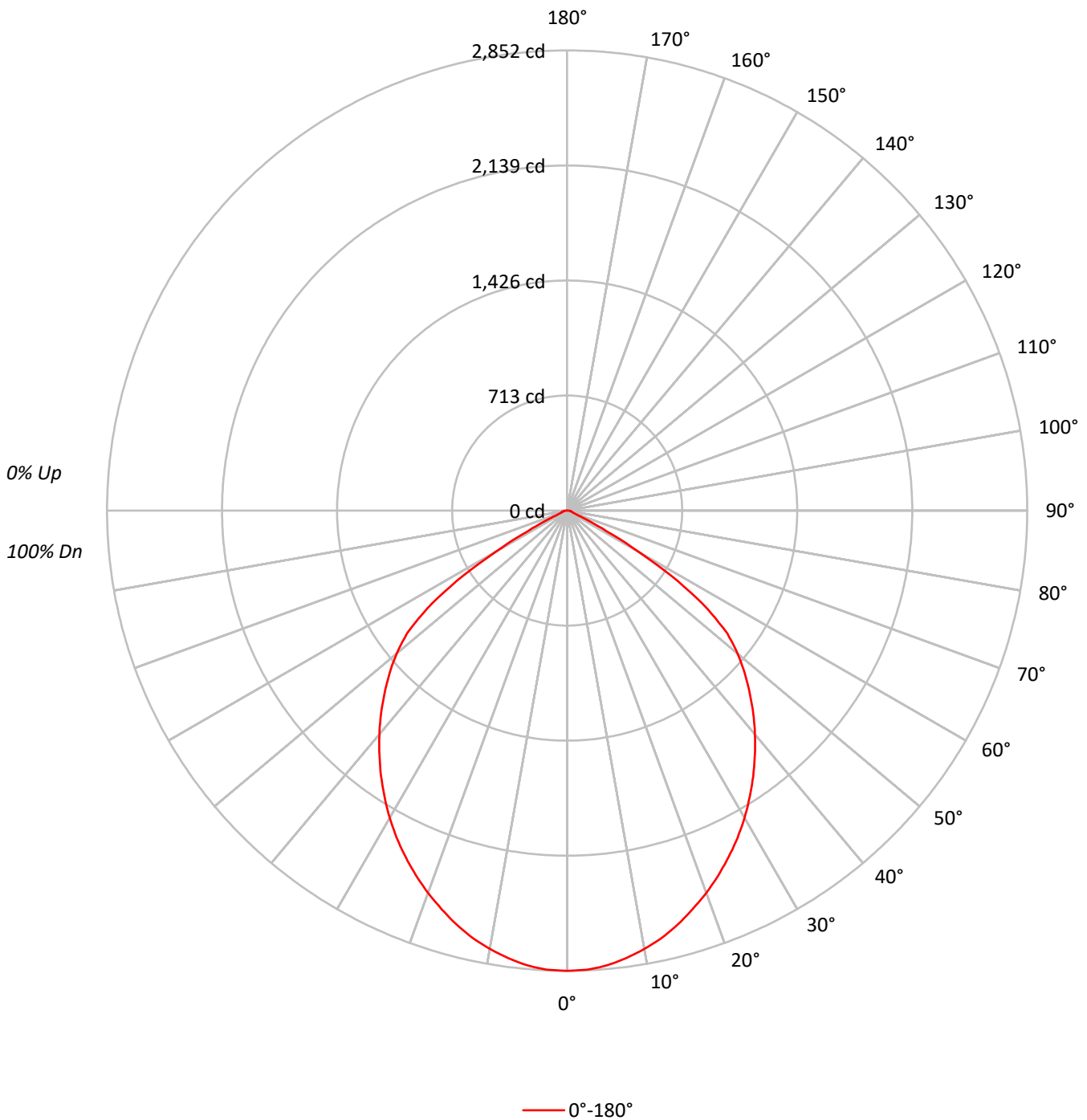
Lumens per Lamp: N/A
Luminaire Lumens: 5727.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	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	40		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	44	38	34		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22694
5°	22602
10°	22290
15°	21864
20°	21353
25°	20796
30°	20202
35°	19527
40°	18806
45°	18001
50°	17075
55°	14708
60°	8109
65°	2283
70°	912
75°	974
80°	1113
85°	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18001 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	4.7
10°-20°	747.5	13.1
20°-30°	1090.8	19.0
30°-40°	1256.8	21.9
40°-50°	1233.9	21.5
50°-60°	904.9	15.8
60°-70°	177.3	3.1
70°-80°	33.5	0.6
80°-90°	15.0	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°	2106.1	36.8
0°-40°	3362.9	58.7
0°-60°	5501.8	96.1
0°-90°	5727.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5727.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2852	
5°	2830	268
15°	2655	748
25°	2369	1091
35°	2011	1257
45°	1600	1234
55°	1060	905
65°	121	177
75°	32	34
85°	15	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2852.5
2.5°	2848.8
5°	2830.1
7.5°	2798.4
10°	2759.2
12.5°	2712.5
15°	2654.6
17.5°	2589.3
20°	2522.1
22.5°	2447.4
25°	2369.0
27.5°	2286.8
30°	2199.1
32.5°	2105.8
35°	2010.6
37.5°	1911.6
40°	1810.8
42.5°	1708.1
45°	1599.9
47.5°	1493.5
50°	1379.6
52.5°	1250.8
55°	1060.4
57.5°	812.1
60°	509.6
62.5°	274.4
65°	121.3
67.5°	56.0
70°	39.2
72.5°	35.5
75°	31.7
77.5°	28.0
80°	24.3
82.5°	20.5
85°	14.9
87.5°	7.5
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	20.39	21.82	20.76	22.14	22.45	20.39	21.82	20.76	22.14	22.45
	3H	20.30	21.56	20.68	21.89	22.25	20.30	21.56	20.68	21.89	22.25
	4H	20.24	21.41	20.65	21.76	22.15	20.24	21.41	20.65	21.76	22.15
	6H	20.19	21.26	20.60	21.63	22.03	20.19	21.26	20.60	21.63	22.03
	8H	20.16	21.18	20.59	21.57	21.97	20.16	21.18	20.59	21.57	21.97
	12H	20.13	21.11	20.56	21.49	21.92	20.13	21.11	20.56	21.49	21.92
4H	2H	20.25	21.42	20.66	21.77	22.16	20.25	21.42	20.66	21.77	22.16
	3H	20.17	21.11	20.58	21.52	21.92	20.17	21.11	20.58	21.52	21.92
	4H	20.11	20.95	20.55	21.37	21.81	20.11	20.95	20.55	21.37	21.81
	6H	20.07	20.79	20.53	21.24	21.70	20.07	20.79	20.53	21.24	21.70
	8H	20.03	20.71	20.50	21.15	21.62	20.03	20.71	20.50	21.15	21.62
	12H	20.01	20.61	20.49	21.09	21.56	20.01	20.61	20.49	21.09	21.56
8H	4H	20.00	20.67	20.46	21.12	21.59	20.00	20.67	20.46	21.12	21.59
	6H	19.94	20.50	20.44	20.99	21.47	19.94	20.50	20.44	20.99	21.47
	8H	19.90	20.41	20.42	20.92	21.41	19.90	20.41	20.42	20.92	21.41
	12H	19.89	20.34	20.40	20.84	21.40	19.89	20.34	20.40	20.84	21.40
12H	4H	19.95	20.56	20.44	21.04	21.51	19.95	20.56	20.44	21.04	21.51
	6H	19.88	20.39	20.40	20.90	21.39	19.88	20.39	20.40	20.90	21.39
	8H	19.87	20.32	20.38	20.82	21.38	19.87	20.32	20.38	20.82	21.38