

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: P866387

Luminaire Tested: PRLX-2002-M-940-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-55L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

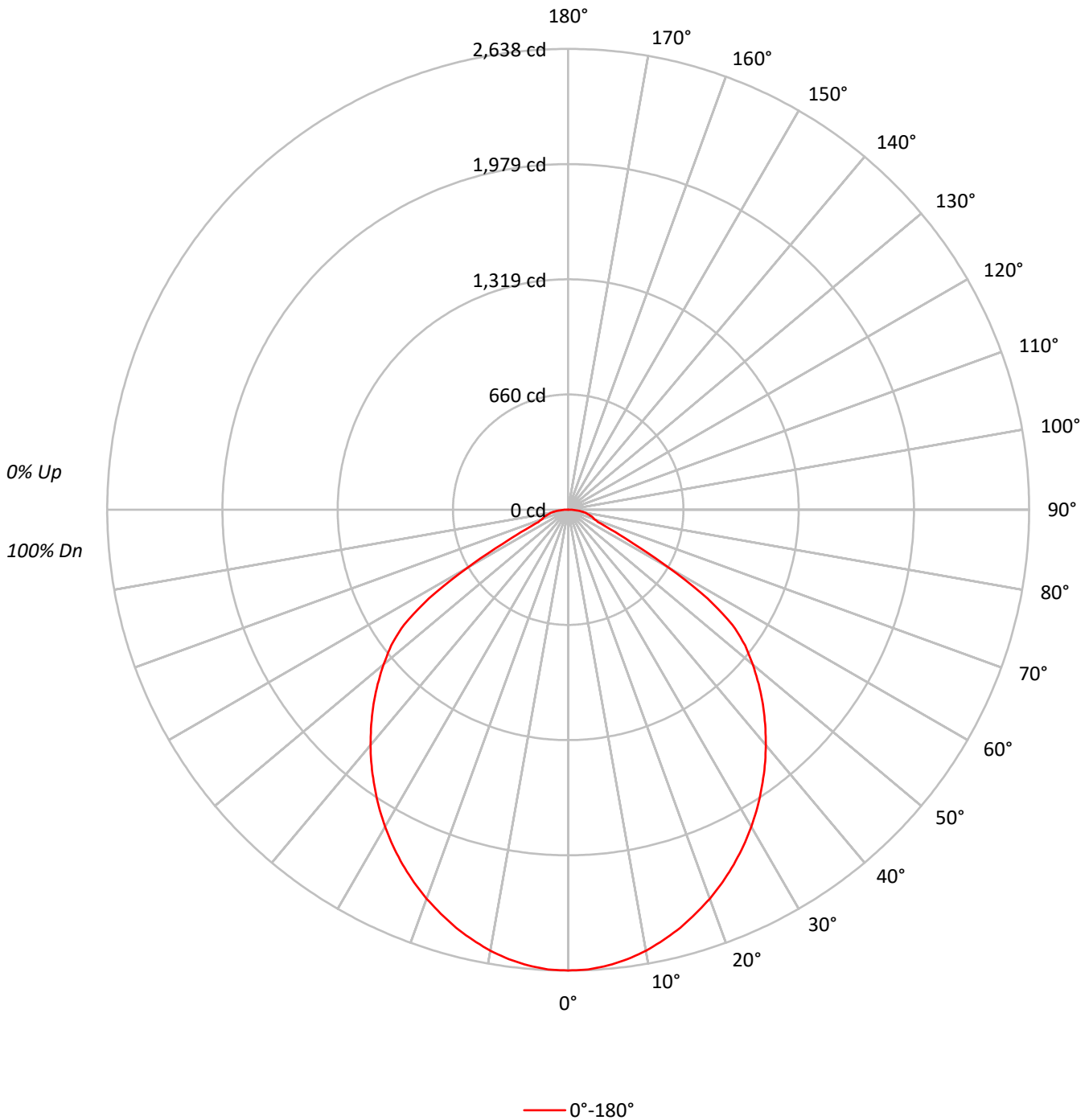
Lumens per Lamp: N/A
Luminaire Lumens: 5891.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20987
5°	20916
10°	20711
15°	20413
20°	20060
25°	19676
30°	19256
35°	18778
40°	18275
45°	17719
50°	17068
55°	15907
60°	10681
65°	5054
70°	3710
75°	3981
80°	4417
85°	4902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	4.2
10°-20°	698.2	11.9
20°-30°	1032.2	17.5
30°-40°	1209.3	20.5
40°-50°	1214.0	20.6
50°-60°	979.8	16.6
60°-70°	316.7	5.4
70°-80°	136.8	2.3
80°-90°	56.5	1.0
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°	1978.7	33.6
0°-40°	3188.0	54.1
0°-60°	5381.8	91.3
0°-90°	5891.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5891.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2638	
5°	2619	248
15°	2478	698
25°	2242	1032
35°	1933	1209
45°	1575	1214
55°	1147	980
65°	268	317
75°	130	137
85°	54	57
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2638.0
2.5°	2634.8
5°	2619.0
7.5°	2595.3
10°	2563.7
12.5°	2522.6
15°	2478.4
17.5°	2424.7
20°	2369.4
22.5°	2307.8
25°	2241.5
27.5°	2170.4
30°	2096.1
32.5°	2017.2
35°	1933.4
37.5°	1848.1
40°	1759.7
42.5°	1668.1
45°	1574.9
47.5°	1478.5
50°	1379.0
52.5°	1276.3
55°	1146.8
57.5°	946.2
60°	671.3
62.5°	420.2
65°	268.5
67.5°	184.8
70°	159.5
72.5°	146.9
75°	129.5
77.5°	113.7
80°	96.4
82.5°	77.4
85°	53.7
87.5°	28.4
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	21.31	22.81	21.68	23.12	23.44	21.31	22.81	21.68	23.12	23.44
	3H	21.42	22.75	21.80	23.08	23.44	21.42	22.75	21.80	23.08	23.44
	4H	21.51	22.75	21.91	23.10	23.48	21.51	22.75	21.91	23.10	23.48
	6H	21.62	22.77	22.03	23.13	23.52	21.62	22.77	22.03	23.13	23.52
	8H	21.68	22.76	22.10	23.15	23.56	21.68	22.76	22.10	23.15	23.56
	12H	21.72	22.77	22.16	23.15	23.58	21.72	22.77	22.16	23.15	23.58
4H	2H	21.27	22.52	21.68	22.87	23.25	21.27	22.52	21.68	22.87	23.25
	3H	21.48	22.50	21.89	22.90	23.30	21.48	22.50	21.89	22.90	23.30
	4H	21.64	22.55	22.07	22.96	23.40	21.64	22.55	22.07	22.96	23.40
	6H	21.86	22.64	22.31	23.09	23.55	21.86	22.64	22.31	23.09	23.55
	8H	21.96	22.70	22.42	23.14	23.61	21.96	22.70	22.42	23.14	23.61
	12H	22.06	22.72	22.54	23.20	23.67	22.06	22.72	22.54	23.20	23.67
8H	4H	21.65	22.39	22.12	22.83	23.30	21.65	22.39	22.12	22.83	23.30
	6H	21.95	22.56	22.45	23.06	23.53	21.95	22.56	22.45	23.06	23.53
	8H	22.12	22.67	22.63	23.18	23.67	22.12	22.67	22.63	23.18	23.67
	12H	22.29	22.79	22.80	23.28	23.85	22.29	22.79	22.80	23.28	23.85
12H	4H	21.64	22.30	22.13	22.78	23.25	21.64	22.30	22.13	22.78	23.25
	6H	21.95	22.51	22.47	23.02	23.51	21.95	22.51	22.47	23.02	23.51
	8H	22.17	22.67	22.68	23.16	23.73	22.17	22.67	22.68	23.16	23.73