

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: P866363

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866363
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: PrentaLux
Catalog Number: PRLX-2002-M-940-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

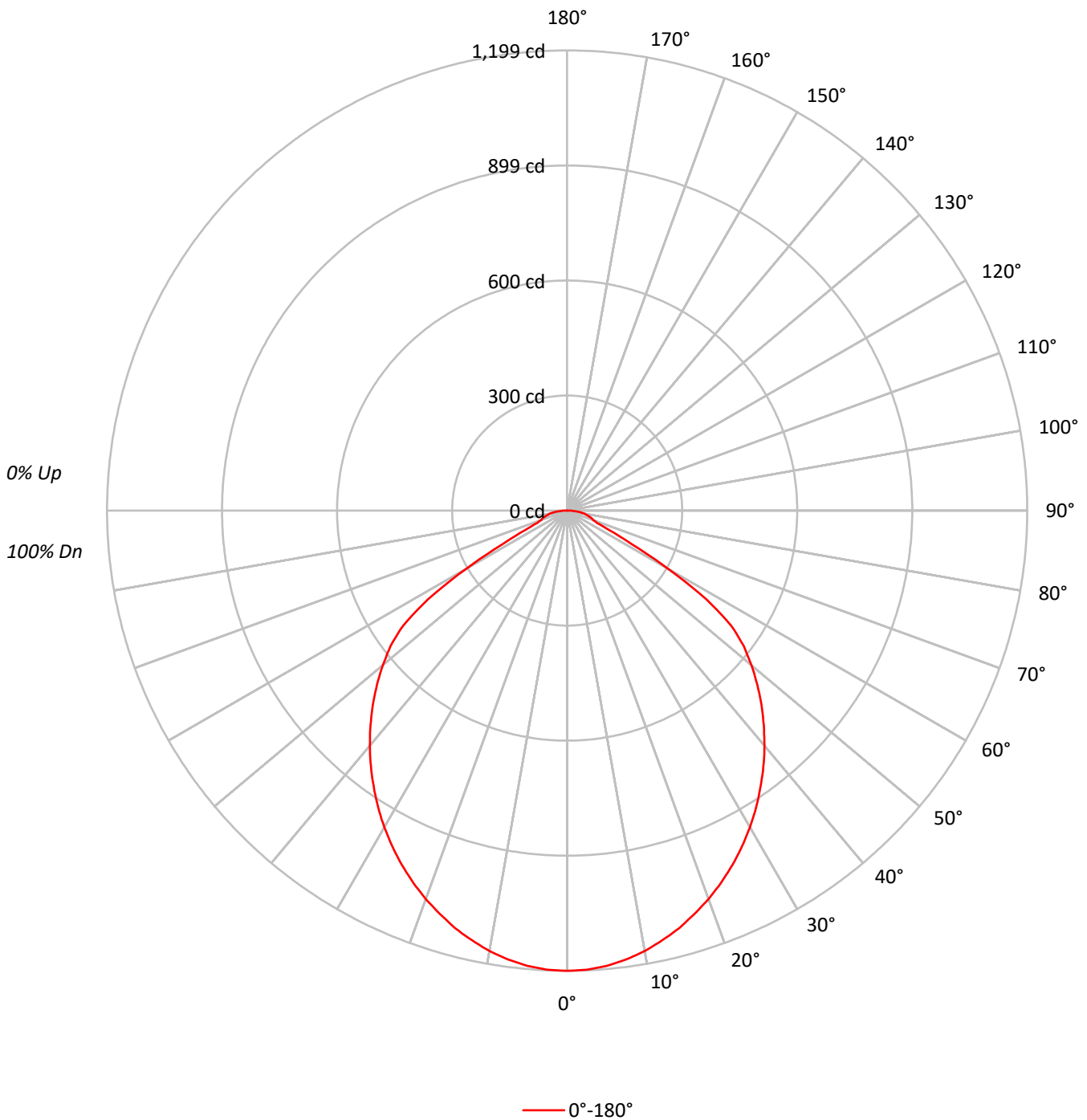
Lumens per Lamp: N/A
Luminaire Lumens: 2678.1 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 0.333 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°	9540
5°	9508
10°	9414
15°	9279
20°	9118
25°	8944
30°	8753
35°	8535
40°	8307
45°	8055
50°	7758
55°	7231
60°	4856
65°	2299
70°	1686
75°	1811
80°	2007
85°	2227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	4.2
10°-20°	317.4	11.9
20°-30°	469.2	17.5
30°-40°	549.7	20.5
40°-50°	551.8	20.6
50°-60°	445.3	16.6
60°-70°	144.0	5.4
70°-80°	62.2	2.3
80°-90°	25.7	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°	899.4	33.6
0°-40°	1449.1	54.1
0°-60°	2446.3	91.3
0°-90°	2678.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1199	
5°	1190	113
15°	1127	317
25°	1019	469
35°	879	550
45°	716	552
55°	521	445
65°	122	144
75°	59	62
85°	24	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1199.1
2.5°	1197.6
5°	1190.5
7.5°	1179.7
10°	1165.3
12.5°	1146.7
15°	1126.6
17.5°	1102.1
20°	1077.0
22.5°	1049.0
25°	1018.9
27.5°	986.5
30°	952.8
32.5°	916.9
35°	878.8
37.5°	840.1
40°	799.9
42.5°	758.2
45°	715.9
47.5°	672.1
50°	626.8
52.5°	580.1
55°	521.3
57.5°	430.1
60°	305.2
62.5°	191.0
65°	122.1
67.5°	84.0
70°	72.5
72.5°	66.8
75°	58.9
77.5°	51.7
80°	43.8
82.5°	35.2
85°	24.4
87.5°	12.9
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	18.57	20.07	18.94	20.38	20.70	18.57	20.07	18.94	20.38	20.70
	3H	18.68	20.01	19.06	20.34	20.70	18.68	20.01	19.06	20.34	20.70
	4H	18.77	20.01	19.17	20.36	20.74	18.77	20.01	19.17	20.36	20.74
	6H	18.88	20.03	19.29	20.39	20.79	18.88	20.03	19.29	20.39	20.79
	8H	18.94	20.03	19.36	20.42	20.82	18.94	20.03	19.36	20.42	20.82
	12H	18.99	20.03	19.42	20.41	20.84	18.99	20.03	19.42	20.41	20.84
4H	2H	18.54	19.78	18.94	20.13	20.51	18.54	19.78	18.94	20.13	20.51
	3H	18.74	19.76	19.15	20.16	20.56	18.74	19.76	19.15	20.16	20.56
	4H	18.90	19.81	19.33	20.22	20.66	18.90	19.81	19.33	20.22	20.66
	6H	19.12	19.91	19.58	20.35	20.81	19.12	19.91	19.58	20.35	20.81
	8H	19.22	19.96	19.69	20.40	20.87	19.22	19.96	19.69	20.40	20.87
	12H	19.32	19.98	19.81	20.46	20.93	19.32	19.98	19.81	20.46	20.93
8H	4H	18.91	19.65	19.38	20.10	20.56	18.91	19.65	19.38	20.10	20.56
	6H	19.21	19.82	19.71	20.32	20.80	19.21	19.82	19.71	20.32	20.80
	8H	19.38	19.93	19.89	20.44	20.93	19.38	19.93	19.89	20.44	20.93
	12H	19.56	20.05	20.07	20.54	21.11	19.56	20.05	20.07	20.54	21.11
12H	4H	18.90	19.56	19.39	20.04	20.51	18.90	19.56	19.39	20.04	20.51
	6H	19.22	19.77	19.73	20.28	20.77	19.22	19.77	19.73	20.28	20.77
	8H	19.43	19.93	19.94	20.42	20.99	19.43	19.93	19.94	20.42	20.99