

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: P866619

Luminaire Tested: PRLX-2004-M-940-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-940-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

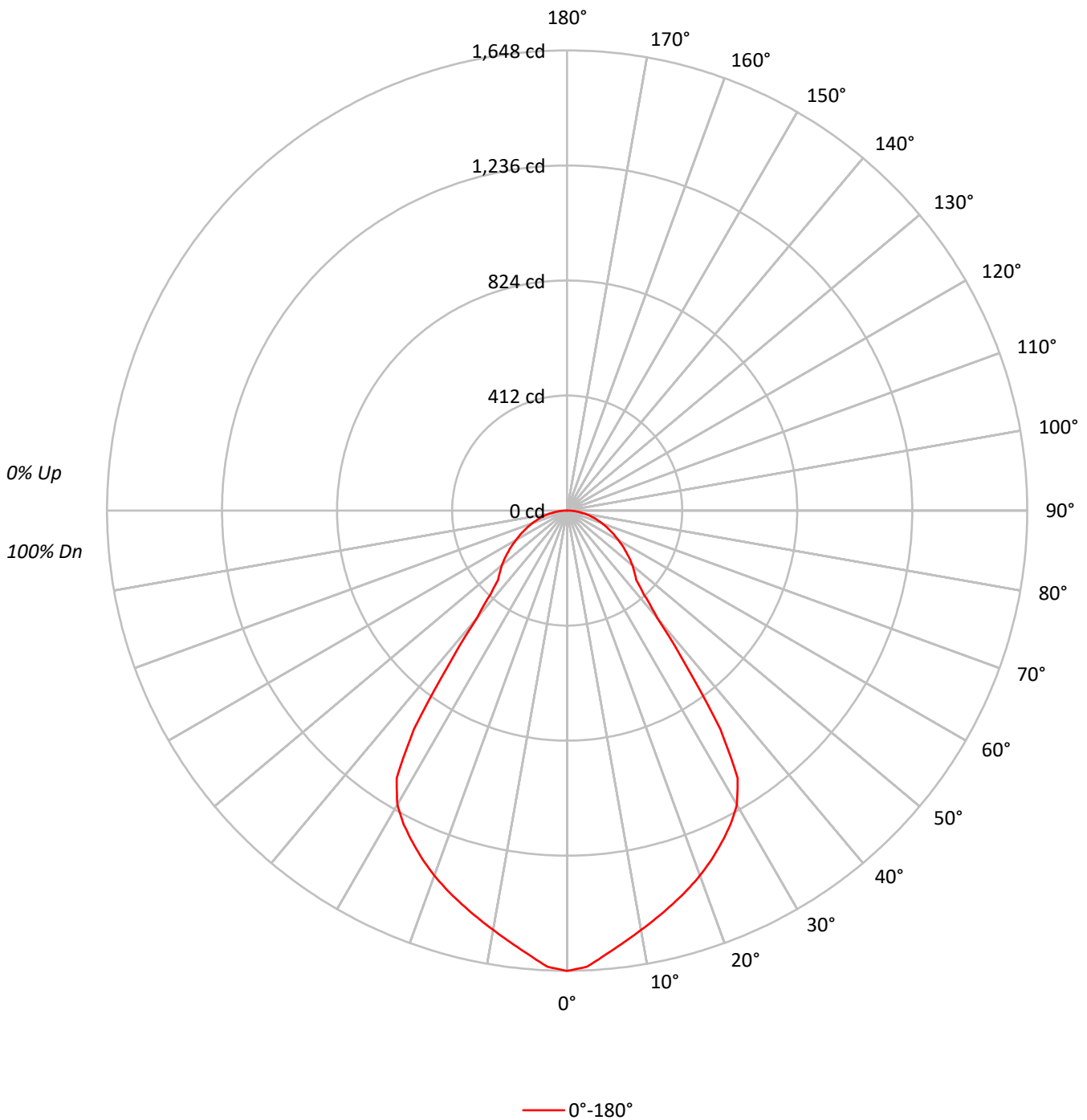
Lumens per Lamp: N/A
Luminaire Lumens: 2552.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): 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	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13115
5°	12741
10°	12320
15°	12017
20°	11775
25°	11503
30°	11174
35°	9289
40°	5227
45°	3935
50°	3777
55°	3576
60°	3370
65°	3204
70°	3089
75°	3000
80°	2928
85°	2885

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	5.9
10°-20°	411.6	16.1
20°-30°	603.3	23.6
30°-40°	563.6	22.1
40°-50°	285.8	11.2
50°-60°	230.8	9.0
60°-70°	169.7	6.6
70°-80°	103.2	4.0
80°-90°	34.5	1.4
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°	1165.1	45.6
0°-40°	1728.7	67.7
0°-60°	2245.3	88.0
0°-90°	2552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1648	
5°	1595	150
15°	1459	412
25°	1310	603
35°	956	564
45°	350	286
55°	258	231
65°	170	170
75°	98	103
85°	32	34
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1648.5
2.5°	1634.9
5°	1595.4
7.5°	1559.5
10°	1525.0
12.5°	1492.0
15°	1459.0
17.5°	1426.0
20°	1390.8
22.5°	1352.7
25°	1310.4
27.5°	1267.3
30°	1216.3
32.5°	1135.9
35°	956.4
37.5°	697.2
40°	503.3
42.5°	405.7
45°	349.7
47.5°	326.7
50°	305.2
52.5°	281.5
55°	257.8
57.5°	234.8
60°	211.8
62.5°	191.7
65°	170.2
67.5°	151.5
70°	132.8
72.5°	114.9
75°	97.6
77.5°	80.4
80°	63.9
82.5°	47.4
85°	31.6
87.5°	15.8
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	14.82	16.18	15.19	16.49	16.80	14.82	16.18	15.19	16.49	16.80
	3H	16.56	17.78	16.94	18.10	18.47	16.56	17.78	16.94	18.10	18.47
	4H	17.27	18.41	17.67	18.76	19.14	17.27	18.41	17.67	18.76	19.14
	6H	17.85	18.89	18.26	19.26	19.66	17.85	18.89	18.26	19.26	19.66
	8H	18.06	19.05	18.49	19.44	19.85	18.06	19.05	18.49	19.44	19.85
	12H	18.22	19.17	18.65	19.55	19.98	18.22	19.17	18.65	19.55	19.98
4H	2H	15.38	16.51	15.78	16.86	17.24	15.38	16.51	15.78	16.86	17.24
	3H	17.35	18.30	17.77	18.70	19.10	17.35	18.30	17.77	18.70	19.10
	4H	18.20	19.05	18.64	19.47	19.91	18.20	19.05	18.64	19.47	19.91
	6H	18.92	19.66	19.38	20.10	20.57	18.92	19.66	19.38	20.10	20.57
	8H	19.19	19.88	19.66	20.32	20.79	19.19	19.88	19.66	20.32	20.79
	12H	19.40	20.01	19.89	20.50	20.97	19.40	20.01	19.89	20.50	20.97
8H	4H	18.51	19.20	18.98	19.64	20.11	18.51	19.20	18.98	19.64	20.11
	6H	19.38	19.94	19.88	20.44	20.92	19.38	19.94	19.88	20.44	20.92
	8H	19.74	20.25	20.26	20.76	21.25	19.74	20.25	20.26	20.76	21.25
	12H	20.06	20.50	20.57	21.00	21.57	20.06	20.50	20.57	21.00	21.57
12H	4H	18.54	19.15	19.03	19.63	20.11	18.54	19.15	19.03	19.63	20.11
	6H	19.45	19.96	19.97	20.47	20.96	19.45	19.96	19.97	20.47	20.96
	8H	19.88	20.32	20.39	20.82	21.39	19.88	20.32	20.39	20.82	21.39