

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: P866615

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-940-25L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

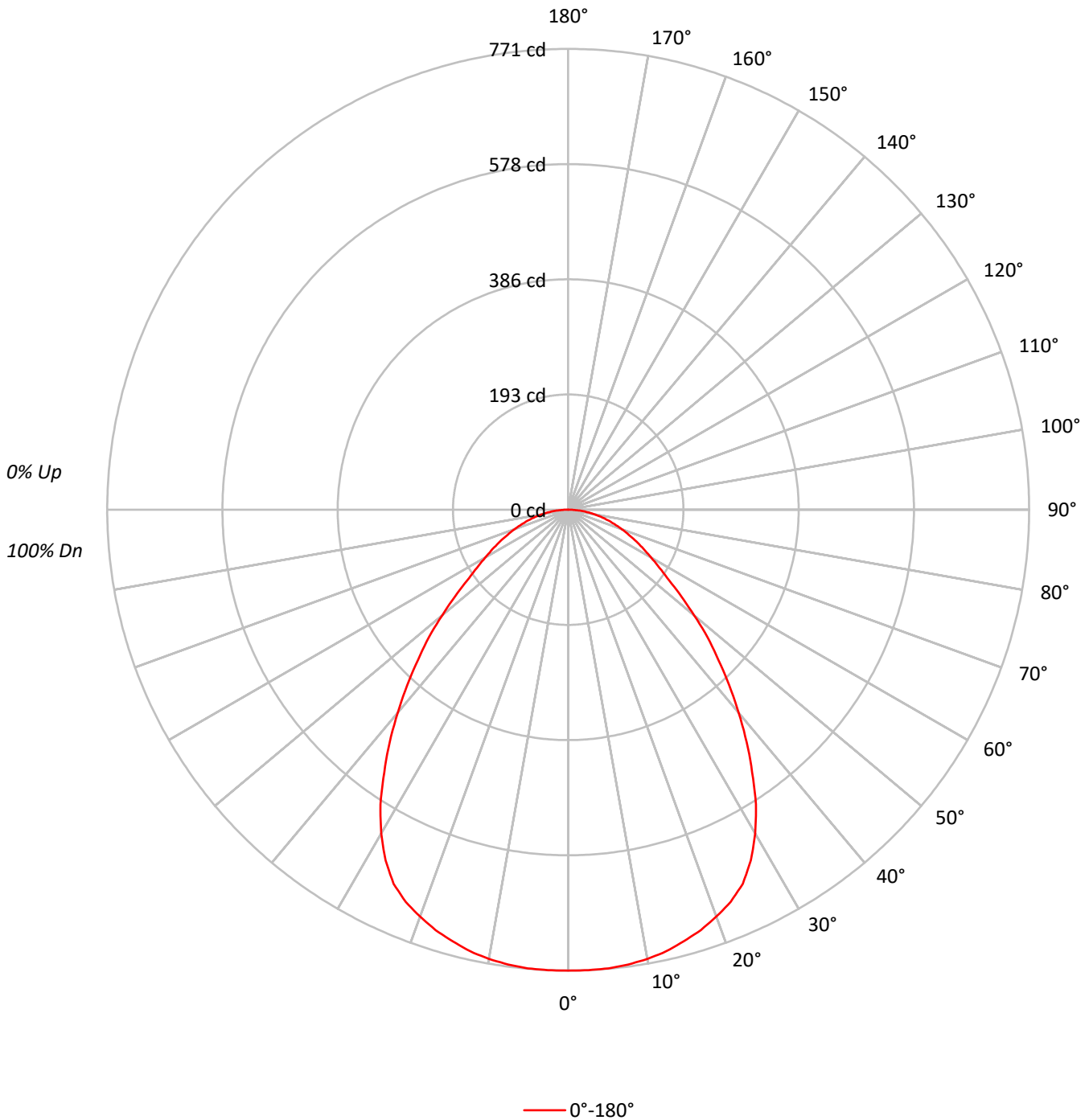
Lumens per Lamp: N/A
Luminaire Lumens: 1619.5 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6135
5°	6153
10°	6166
15°	6156
20°	6134
25°	6063
30°	5745
35°	5210
40°	4608
45°	3999
50°	3404
55°	2859
60°	2547
65°	2366
70°	2221
75°	2118
80°	2039
85°	1963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3999 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	4.5
10°-20°	211.0	13.0
20°-30°	315.4	19.5
30°-40°	334.7	20.7
40°-50°	274.9	17.0
50°-60°	188.1	11.6
60°-70°	125.1	7.7
70°-80°	73.2	4.5
80°-90°	23.8	1.5
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°	599.7	37.0
0°-40°	934.4	57.7
0°-60°	1397.5	86.3
0°-90°	1619.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	771	
5°	770	73
15°	747	211
25°	691	315
35°	536	335
45°	355	275
55°	206	188
65°	126	125
75°	69	73
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	771.1
2.5°	771.1
5°	770.4
7.5°	767.5
10°	763.2
12.5°	756.8
15°	747.4
17.5°	737.4
20°	724.5
22.5°	710.1
25°	690.7
27.5°	661.3
30°	625.4
32.5°	584.5
35°	536.4
37.5°	490.4
40°	443.7
42.5°	398.5
45°	355.4
47.5°	315.9
50°	275.0
52.5°	238.4
55°	206.1
57.5°	180.9
60°	160.1
62.5°	142.2
65°	125.7
67.5°	109.9
70°	95.5
72.5°	81.9
75°	68.9
77.5°	56.7
80°	44.5
82.5°	33.0
85°	21.5
87.5°	10.8
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	14.43	15.90	14.79	16.22	16.53	14.43	15.90	14.79	16.22	16.53
	3H	16.01	17.33	16.39	17.66	18.02	16.01	17.33	16.39	17.66	18.02
	4H	16.65	17.89	17.05	18.24	18.62	16.65	17.89	17.05	18.24	18.62
	6H	17.17	18.32	17.59	18.68	19.08	17.17	18.32	17.59	18.68	19.08
	8H	17.36	18.45	17.79	18.84	19.24	17.36	18.45	17.79	18.84	19.24
	12H	17.51	18.55	17.94	18.93	19.36	17.51	18.55	17.94	18.93	19.36
4H	2H	14.96	16.19	15.36	16.54	16.92	14.96	16.19	15.36	16.54	16.92
	3H	16.78	17.81	17.19	18.21	18.61	16.78	17.81	17.19	18.21	18.61
	4H	17.56	18.48	17.99	18.90	19.34	17.56	18.48	17.99	18.90	19.34
	6H	18.22	19.03	18.68	19.47	19.93	18.22	19.03	18.68	19.47	19.93
	8H	18.47	19.22	18.93	19.67	20.13	18.47	19.22	18.93	19.67	20.13
	12H	18.66	19.34	19.15	19.82	20.29	18.66	19.34	19.15	19.82	20.29
8H	4H	17.85	18.60	18.31	19.05	19.52	17.85	18.60	18.31	19.05	19.52
	6H	18.65	19.28	19.15	19.77	20.25	18.65	19.28	19.15	19.77	20.25
	8H	18.99	19.55	19.51	20.06	20.55	18.99	19.55	19.51	20.06	20.55
	12H	19.28	19.78	19.79	20.27	20.83	19.28	19.78	19.79	20.27	20.83
12H	4H	17.88	18.55	18.36	19.03	19.50	17.88	18.55	18.36	19.03	19.50
	6H	18.72	19.28	19.23	19.79	20.28	18.72	19.28	19.23	19.79	20.28
	8H	19.12	19.61	19.63	20.11	20.67	19.12	19.61	19.63	20.11	20.67