

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: P866431

Luminaire Tested: PRLX-2004-M-927-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866431
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-927-35L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

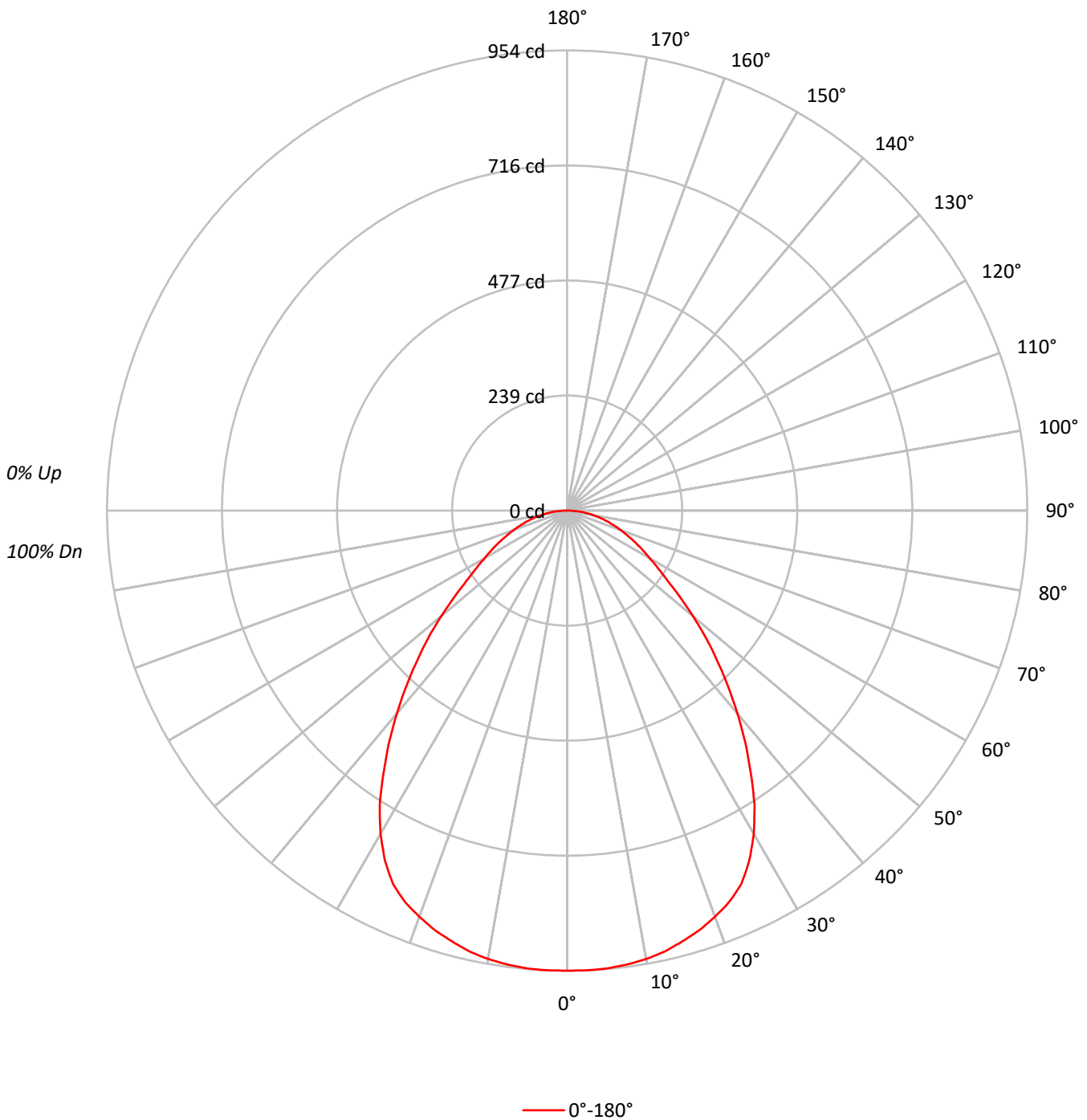
Lumens per Lamp: N/A
Luminaire Lumens: 2003.1 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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°	7588
5°	7610
10°	7626
15°	7615
20°	7586
25°	7499
30°	7106
35°	6443
40°	5700
45°	4946
50°	4209
55°	3536
60°	3150
65°	2925
70°	2747
75°	2622
80°	2524
85°	2428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4946 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	4.5
10°-20°	261.0	13.0
20°-30°	390.1	19.5
30°-40°	414.0	20.7
40°-50°	340.0	17.0
50°-60°	232.6	11.6
60°-70°	154.6	7.7
70°-80°	90.6	4.5
80°-90°	29.5	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°	741.7	37.0
0°-40°	1155.7	57.7
0°-60°	1728.4	86.3
0°-90°	2003.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	954	
5°	953	91
15°	924	261
25°	854	390
35°	663	414
45°	440	340
55°	255	233
65°	155	155
75°	85	91
85°	27	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	953.8
2.5°	953.8
5°	952.9
7.5°	949.3
10°	944.0
12.5°	936.0
15°	924.5
17.5°	912.0
20°	896.0
22.5°	878.3
25°	854.3
27.5°	817.9
30°	773.5
32.5°	722.9
35°	663.4
37.5°	606.5
40°	548.8
42.5°	492.9
45°	439.6
47.5°	390.7
50°	340.1
52.5°	294.8
55°	254.9
57.5°	223.8
60°	198.0
62.5°	175.8
65°	155.4
67.5°	135.9
70°	118.1
72.5°	101.2
75°	85.3
77.5°	70.2
80°	55.1
82.5°	40.9
85°	26.6
87.5°	13.3
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	15.17	16.64	15.53	16.96	17.27	15.17	16.64	15.53	16.96	17.27
	3H	16.75	18.07	17.13	18.40	18.76	16.75	18.07	17.13	18.40	18.76
	4H	17.39	18.63	17.79	18.98	19.36	17.39	18.63	17.79	18.98	19.36
	6H	17.91	19.06	18.33	19.43	19.82	17.91	19.06	18.33	19.43	19.82
	8H	18.11	19.19	18.53	19.58	19.99	18.11	19.19	18.53	19.58	19.99
	12H	18.25	19.29	18.68	19.67	20.10	18.25	19.29	18.68	19.67	20.10
4H	2H	15.70	16.93	16.10	17.28	17.66	15.70	16.93	16.10	17.28	17.66
	3H	17.52	18.54	17.93	18.95	19.35	17.52	18.54	17.93	18.95	19.35
	4H	18.30	19.22	18.73	19.64	20.08	18.30	19.22	18.73	19.64	20.08
	6H	18.96	19.77	19.42	20.21	20.67	18.96	19.77	19.42	20.21	20.67
	8H	19.21	19.96	19.67	20.41	20.88	19.21	19.96	19.67	20.41	20.88
	12H	19.41	20.08	19.89	20.56	21.03	19.41	20.08	19.89	20.56	21.03
8H	4H	18.59	19.34	19.05	19.79	20.25	18.59	19.34	19.05	19.79	20.25
	6H	19.40	20.02	19.89	20.51	20.99	19.40	20.02	19.89	20.51	20.99
	8H	19.73	20.29	20.25	20.80	21.29	19.73	20.29	20.25	20.80	21.29
	12H	20.02	20.52	20.53	21.01	21.58	20.02	20.52	20.53	21.01	21.58
12H	4H	18.62	19.29	19.10	19.77	20.24	18.62	19.29	19.10	19.77	20.24
	6H	19.46	20.02	19.97	20.53	21.02	19.46	20.02	19.97	20.53	21.02
	8H	19.86	20.36	20.37	20.85	21.41	19.86	20.36	20.37	20.85	21.41