

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: P866559

Luminaire Tested: PRLX-2004-M-935-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866559
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-935-35L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

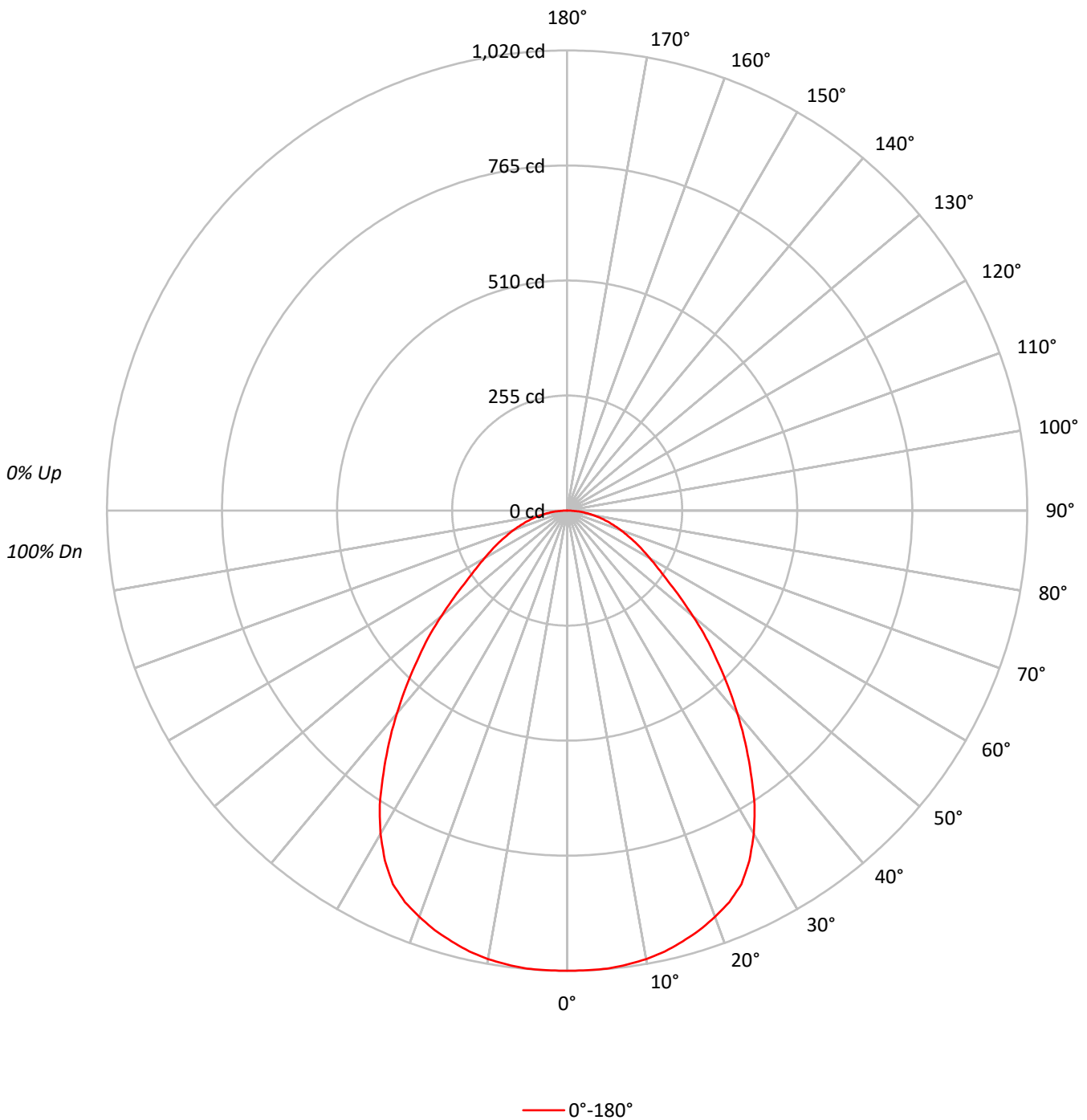
Lumens per Lamp: N/A
Luminaire Lumens: 2142.2 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866559

CATALOG NUMBER: PRLX-2004-M-935-35L-G-U-S-X-X-WHHR-X

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	61	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°	8115
5°	8139
10°	8156
15°	8143
20°	8113
25°	8021
30°	7599
35°	6891
40°	6095
45°	5289
50°	4503
55°	3781
60°	3370
65°	3129
70°	2938
75°	2803
80°	2699
85°	2602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	4.5
10°-20°	279.1	13.0
20°-30°	417.2	19.5
30°-40°	442.8	20.7
40°-50°	363.7	17.0
50°-60°	248.8	11.6
60°-70°	165.4	7.7
70°-80°	96.8	4.5
80°-90°	31.5	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°	793.3	37.0
0°-40°	1236.0	57.7
0°-60°	1848.5	86.3
0°-90°	2142.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2142.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1020	
5°	1019	97
15°	989	279
25°	914	417
35°	710	443
45°	470	364
55°	273	249
65°	166	165
75°	91	97
85°	28	32
90°	0	

TEST NUMBER: P866559

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1020.0
2.5°	1020.0
5°	1019.1
7.5°	1015.3
10°	1009.6
12.5°	1001.0
15°	988.7
17.5°	975.4
20°	958.3
22.5°	939.3
25°	913.7
27.5°	874.7
30°	827.2
32.5°	773.1
35°	709.5
37.5°	648.7
40°	586.9
42.5°	527.1
45°	470.1
47.5°	417.9
50°	363.8
52.5°	315.3
55°	272.6
57.5°	239.3
60°	211.8
62.5°	188.0
65°	166.2
67.5°	145.3
70°	126.3
72.5°	108.3
75°	91.2
77.5°	75.0
80°	58.9
82.5°	43.7
85°	28.5
87.5°	14.2
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	15.40	16.87	15.77	17.19	17.50	15.40	16.87	15.77	17.19	17.50
	3H	16.98	18.30	17.36	18.63	19.00	16.98	18.30	17.36	18.63	19.00
	4H	17.62	18.86	18.02	19.21	19.59	17.62	18.86	18.02	19.21	19.59
	6H	18.15	19.29	18.56	19.66	20.05	18.15	19.29	18.56	19.66	20.05
	8H	18.34	19.43	18.76	19.82	20.22	18.34	19.43	18.76	19.82	20.22
	12H	18.48	19.52	18.91	19.90	20.33	18.48	19.52	18.91	19.90	20.33
4H	2H	15.93	17.17	16.33	17.52	17.89	15.93	17.17	16.33	17.52	17.89
	3H	17.75	18.78	18.16	19.18	19.58	17.75	18.78	18.16	19.18	19.58
	4H	18.53	19.45	18.96	19.87	20.31	18.53	19.45	18.96	19.87	20.31
	6H	19.19	20.00	19.65	20.44	20.90	19.19	20.00	19.65	20.44	20.90
	8H	19.44	20.19	19.91	20.64	21.11	19.44	20.19	19.91	20.64	21.11
	12H	19.64	20.31	20.12	20.79	21.26	19.64	20.31	20.12	20.79	21.26
8H	4H	18.82	19.57	19.29	20.02	20.49	18.82	19.57	19.29	20.02	20.49
	6H	19.63	20.25	20.12	20.74	21.22	19.63	20.25	20.12	20.74	21.22
	8H	19.96	20.52	20.48	21.03	21.52	19.96	20.52	20.48	21.03	21.52
	12H	20.25	20.75	20.76	21.24	21.81	20.25	20.75	20.76	21.24	21.81
12H	4H	18.85	19.52	19.34	20.00	20.48	18.85	19.52	19.34	20.00	20.48
	6H	19.69	20.25	20.21	20.76	21.25	19.69	20.25	20.21	20.76	21.25
	8H	20.09	20.59	20.60	21.08	21.65	20.09	20.59	20.60	21.08	21.65