

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: P866623

Luminaire Tested: PRLX-2004-M-940-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866623
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: Pentalux
Catalog Number: PRLX-2004-M-940-35L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

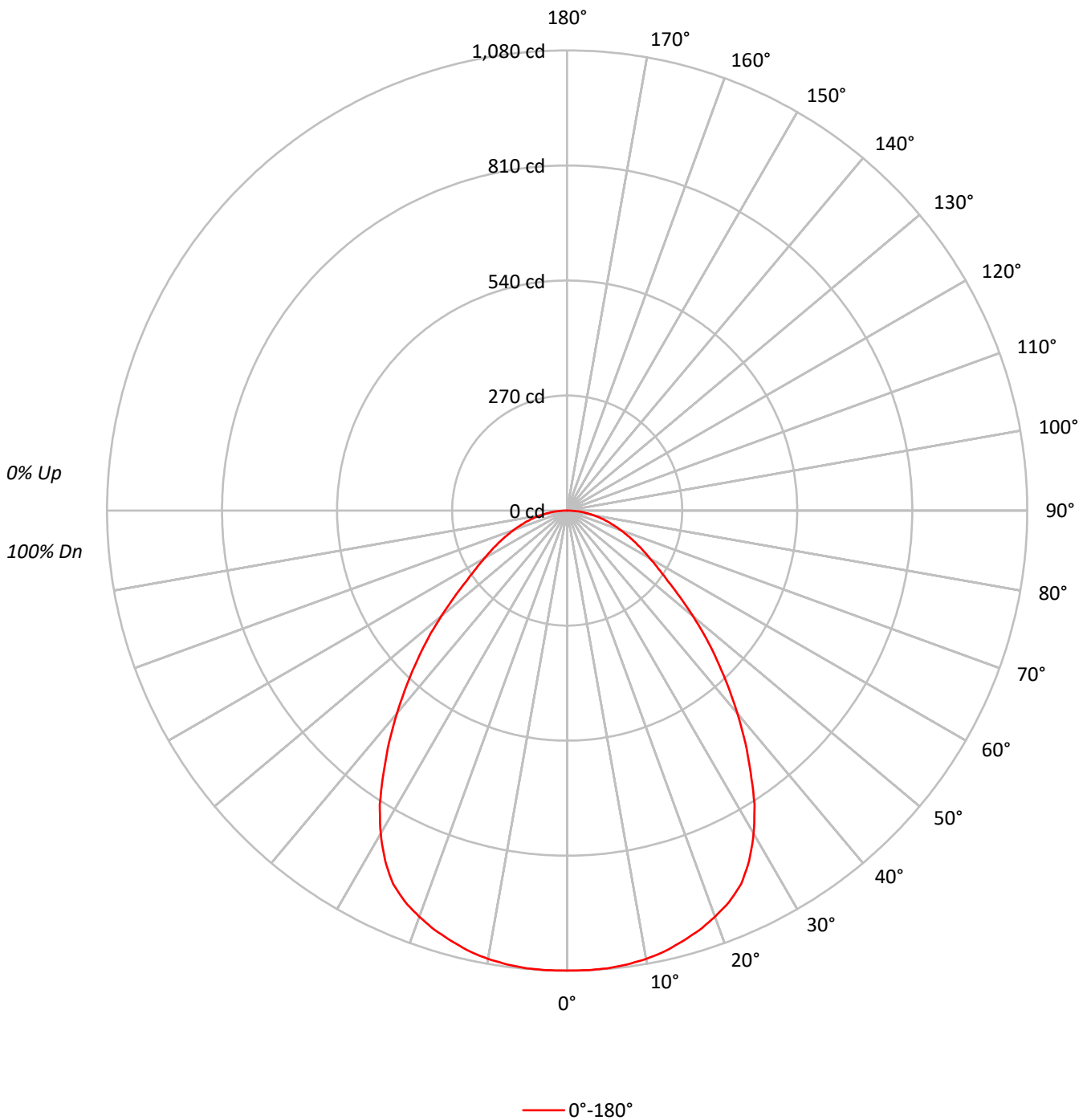
Lumens per Lamp: N/A
Luminaire Lumens: 2267.3 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8589
5°	8614
10°	8632
15°	8619
20°	8587
25°	8489
30°	8043
35°	7293
40°	6451
45°	5599
50°	4765
55°	4002
60°	3567
65°	3311
70°	3110
75°	2966
80°	2854
85°	2757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	4.5
10°-20°	295.4	13.0
20°-30°	441.5	19.5
30°-40°	468.6	20.7
40°-50°	384.9	17.0
50°-60°	263.3	11.6
60°-70°	175.0	7.7
70°-80°	102.5	4.5
80°-90°	33.4	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°	839.6	37.0
0°-40°	1308.2	57.7
0°-60°	1956.4	86.3
0°-90°	2267.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1080	
5°	1079	103
15°	1046	295
25°	967	442
35°	751	469
45°	498	385
55°	288	263
65°	176	175
75°	96	102
85°	30	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1079.6
2.5°	1079.6
5°	1078.6
7.5°	1074.6
10°	1068.5
12.5°	1059.5
15°	1046.4
17.5°	1032.4
20°	1014.3
22.5°	994.2
25°	967.0
27.5°	925.8
30°	875.5
32.5°	818.2
35°	750.9
37.5°	686.6
40°	621.2
42.5°	557.9
45°	497.6
47.5°	442.3
50°	385.0
52.5°	333.7
55°	288.5
57.5°	253.3
60°	224.2
62.5°	199.0
65°	175.9
67.5°	153.8
70°	133.7
72.5°	114.6
75°	96.5
77.5°	79.4
80°	62.3
82.5°	46.2
85°	30.2
87.5°	15.1
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	15.60	17.07	15.96	17.39	17.70	15.60	17.07	15.96	17.39	17.70
	3H	17.18	18.50	17.56	18.83	19.19	17.18	18.50	17.56	18.83	19.19
	4H	17.82	19.06	18.22	19.41	19.79	17.82	19.06	18.22	19.41	19.79
	6H	18.34	19.49	18.76	19.85	20.25	18.34	19.49	18.76	19.85	20.25
	8H	18.53	19.62	18.96	20.01	20.41	18.53	19.62	18.96	20.01	20.41
	12H	18.68	19.72	19.11	20.10	20.53	18.68	19.72	19.11	20.10	20.53
4H	2H	16.13	17.36	16.53	17.71	18.09	16.13	17.36	16.53	17.71	18.09
	3H	17.95	18.98	18.36	19.38	19.78	17.95	18.98	18.36	19.38	19.78
	4H	18.73	19.65	19.16	20.07	20.51	18.73	19.65	19.16	20.07	20.51
	6H	19.39	20.20	19.85	20.64	21.10	19.39	20.20	19.85	20.64	21.10
	8H	19.64	20.39	20.10	20.84	21.30	19.64	20.39	20.10	20.84	21.30
	12H	19.83	20.51	20.32	20.99	21.46	19.83	20.51	20.32	20.99	21.46
8H	4H	19.02	19.77	19.48	20.22	20.68	19.02	19.77	19.48	20.22	20.68
	6H	19.82	20.45	20.32	20.94	21.42	19.82	20.45	20.32	20.94	21.42
	8H	20.16	20.72	20.67	21.23	21.72	20.16	20.72	20.67	21.23	21.72
	12H	20.45	20.95	20.96	21.44	22.00	20.45	20.95	20.96	21.44	22.00
12H	4H	19.05	19.72	19.53	20.20	20.67	19.05	19.72	19.53	20.20	20.67
	6H	19.89	20.45	20.40	20.96	21.45	19.89	20.45	20.40	20.96	21.45
	8H	20.29	20.78	20.80	21.28	21.84	20.29	20.78	20.80	21.28	21.84