

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: P867227

Luminaire Tested: PRLX-2004-L-927-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-927-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

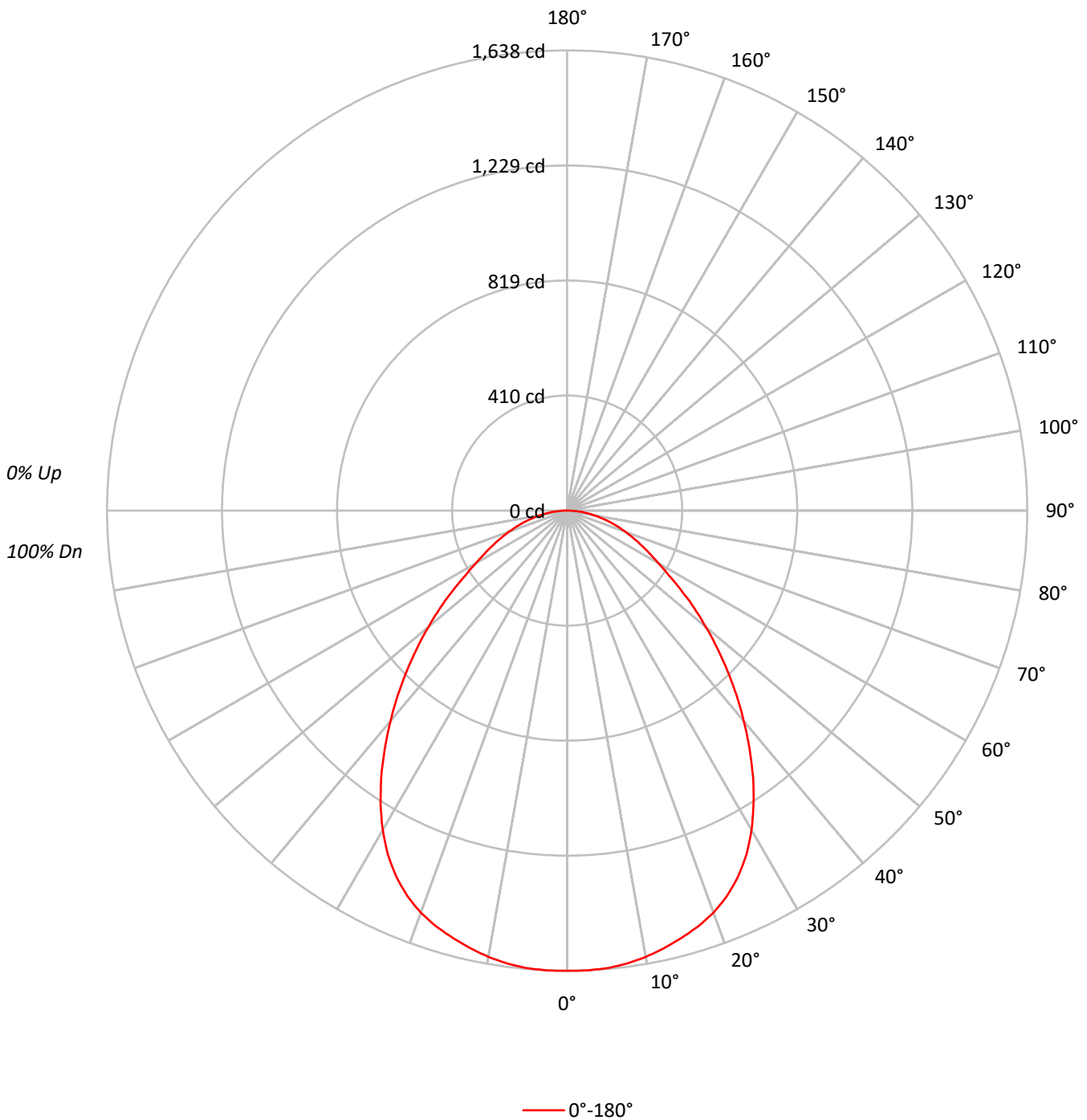
Lumens per Lamp: N/A
Luminaire Lumens: 3556.6 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8083
5°	8098
10°	8082
15°	8044
20°	7996
25°	7833
30°	7480
35°	6944
40°	6303
45°	5626
50°	4945
55°	4271
60°	3703
65°	3401
70°	3175
75°	2980
80°	2810
85°	2649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	4.4
10°-20°	444.4	12.5
20°-30°	659.6	18.5
30°-40°	718.3	20.2
40°-50°	622.8	17.5
50°-60°	447.6	12.6
60°-70°	290.3	8.2
70°-80°	166.1	4.7
80°-90°	52.1	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°	1259.4	35.4
0°-40°	1977.7	55.6
0°-60°	3048.1	85.7
0°-90°	3556.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1638	
5°	1635	155
15°	1575	444
25°	1439	660
35°	1153	718
45°	806	623
55°	496	448
65°	291	290
75°	156	166
85°	47	52
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1638.2
2.5°	1638.2
5°	1635.0
7.5°	1626.5
10°	1613.2
12.5°	1595.1
15°	1574.9
17.5°	1551.6
20°	1522.9
22.5°	1486.2
25°	1438.9
27.5°	1381.5
30°	1312.9
32.5°	1235.8
35°	1152.9
37.5°	1065.7
40°	978.6
42.5°	892.5
45°	806.3
47.5°	725.0
50°	644.2
52.5°	569.8
55°	496.5
57.5°	430.0
60°	375.3
62.5°	330.6
65°	291.3
67.5°	254.1
70°	220.1
72.5°	187.1
75°	156.3
77.5°	127.0
80°	98.9
82.5°	72.3
85°	46.8
87.5°	22.9
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	16.01	17.51	16.38	17.83	18.14	16.01	17.51	16.38	17.83	18.14
	3H	17.53	18.87	17.90	19.20	19.56	17.53	18.87	17.90	19.20	19.56
	4H	18.13	19.39	18.53	19.74	20.11	18.13	19.39	18.53	19.74	20.11
	6H	18.60	19.77	19.01	20.13	20.53	18.60	19.77	19.01	20.13	20.53
	8H	18.77	19.88	19.20	20.27	20.67	18.77	19.88	19.20	20.27	20.67
	12H	18.90	19.96	19.33	20.34	20.77	18.90	19.96	19.33	20.34	20.77
4H	2H	16.51	17.77	16.91	18.12	18.50	16.51	17.77	16.91	18.12	18.50
	3H	18.27	19.31	18.68	19.71	20.12	18.27	19.31	18.68	19.71	20.12
	4H	19.00	19.95	19.44	20.36	20.80	19.00	19.95	19.44	20.36	20.80
	6H	19.62	20.44	20.08	20.88	21.34	19.62	20.44	20.08	20.88	21.34
	8H	19.84	20.61	20.31	21.05	21.52	19.84	20.61	20.31	21.05	21.52
	12H	20.02	20.70	20.50	21.18	21.65	20.02	20.70	20.50	21.18	21.65
8H	4H	19.28	20.05	19.74	20.49	20.96	19.28	20.05	19.74	20.49	20.96
	6H	20.03	20.66	20.52	21.15	21.63	20.03	20.66	20.52	21.15	21.63
	8H	20.33	20.90	20.85	21.41	21.90	20.33	20.90	20.85	21.41	21.90
	12H	20.59	21.10	21.10	21.59	22.16	20.59	21.10	21.10	21.59	22.16
12H	4H	19.31	19.99	19.79	20.47	20.94	19.31	19.99	19.79	20.47	20.94
	6H	20.08	20.65	20.60	21.16	21.65	20.08	20.65	20.60	21.16	21.65
	8H	20.45	20.96	20.96	21.45	22.01	20.45	20.96	20.96	21.45	22.01