

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: P867024

Luminaire Tested: PRLX-2002-L-930-48L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-48L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

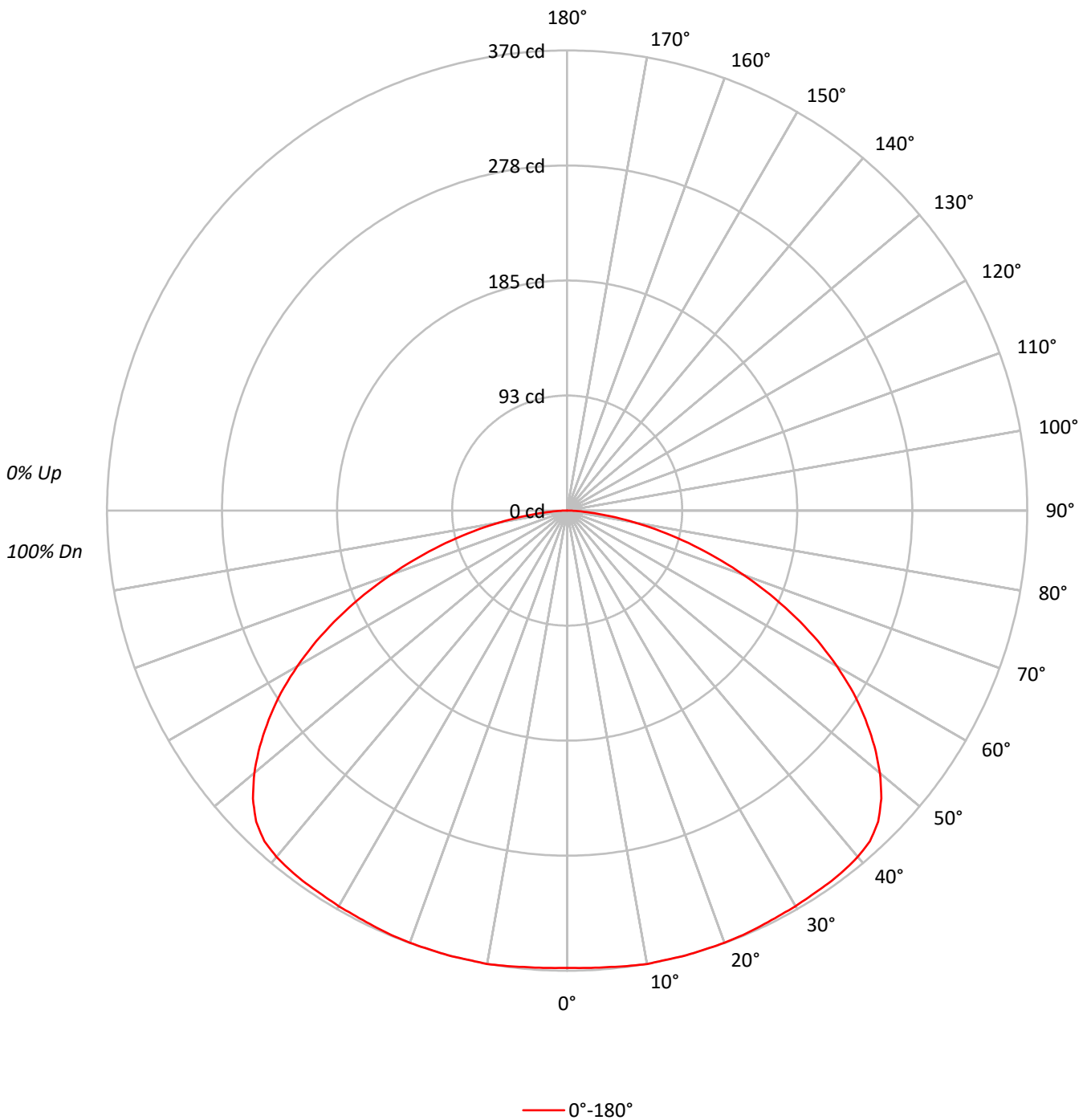
Lumens per Lamp: N/A
Luminaire Lumens: 1403.3 lumens
Efficiency: N/A
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (A_{in}): 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1814
5°	1825
10°	1855
15°	1891
20°	1942
25°	2006
30°	2093
35°	2204
40°	2341
45°	2468
50°	2521
55°	2519
60°	2473
65°	2363
70°	2171
75°	1925
80°	1574
85°	1053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	2.5
10°-20°	104.9	7.5
20°-30°	170.5	12.2
30°-40°	229.7	16.4
40°-50°	271.2	19.3
50°-60°	261.1	18.6
60°-70°	199.6	14.2
70°-80°	107.2	7.6
80°-90°	23.8	1.7
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°	310.6	22.1
0°-40°	540.4	38.5
0°-60°	1072.6	76.4
0°-90°	1403.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1403.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	368	
5°	368	35
15°	370	105
25°	368	171
35°	366	230
45°	354	271
55°	293	261
65°	202	200
75°	101	107
85°	19	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	367.7
2.5°	368.1
5°	368.5
7.5°	369.4
10°	370.2
12.5°	369.8
15°	370.2
17.5°	369.8
20°	369.8
22.5°	369.4
25°	368.5
27.5°	367.7
30°	367.3
32.5°	366.4
35°	366.0
37.5°	365.1
40°	363.5
42.5°	360.5
45°	353.7
47.5°	342.7
50°	328.4
52.5°	311.5
55°	292.9
57.5°	273.0
60°	250.6
62.5°	227.4
65°	202.4
67.5°	176.7
70°	150.5
72.5°	125.5
75°	101.0
77.5°	77.3
80°	55.4
82.5°	35.1
85°	18.6
87.5°	6.3
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	15.83	17.55	16.20	17.86	18.17	15.83	17.55	16.20	17.86	18.17
	3H	17.59	19.14	17.96	19.47	19.82	17.59	19.14	17.96	19.47	19.82
	4H	18.19	19.66	18.59	20.00	20.38	18.19	19.66	18.59	20.00	20.38
	6H	18.59	19.95	19.00	20.31	20.70	18.59	19.95	19.00	20.31	20.70
	8H	18.69	19.99	19.11	20.38	20.78	18.69	19.99	19.11	20.38	20.78
	12H	18.74	19.99	19.17	20.37	20.80	18.74	19.99	19.17	20.37	20.80
4H	2H	16.48	17.95	16.88	18.29	18.67	16.48	17.95	16.88	18.29	18.67
	3H	18.44	19.67	18.84	20.06	20.46	18.44	19.67	18.84	20.06	20.46
	4H	19.16	20.27	19.59	20.68	21.12	19.16	20.27	19.59	20.68	21.12
	6H	19.66	20.64	20.12	21.08	21.53	19.66	20.64	20.12	21.08	21.53
	8H	19.80	20.71	20.26	21.15	21.62	19.80	20.71	20.26	21.15	21.62
	12H	19.88	20.70	20.36	21.18	21.64	19.88	20.70	20.36	21.18	21.64
8H	4H	19.44	20.36	19.90	20.80	21.26	19.44	20.36	19.90	20.80	21.26
	6H	20.04	20.80	20.53	21.29	21.76	20.04	20.80	20.53	21.29	21.76
	8H	20.23	20.91	20.74	21.41	21.90	20.23	20.91	20.74	21.41	21.90
	12H	20.35	20.96	20.86	21.45	22.00	20.35	20.96	20.86	21.45	22.00
12H	4H	19.47	20.29	19.95	20.76	21.23	19.47	20.29	19.95	20.76	21.23
	6H	20.08	20.76	20.59	21.27	21.75	20.08	20.76	20.59	21.27	21.75
	8H	20.31	20.91	20.82	21.40	21.96	20.31	20.91	20.82	21.40	21.96