

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: P866960

Luminaire Tested: PRLX-2002-L-927-48L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866960
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-927-48L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

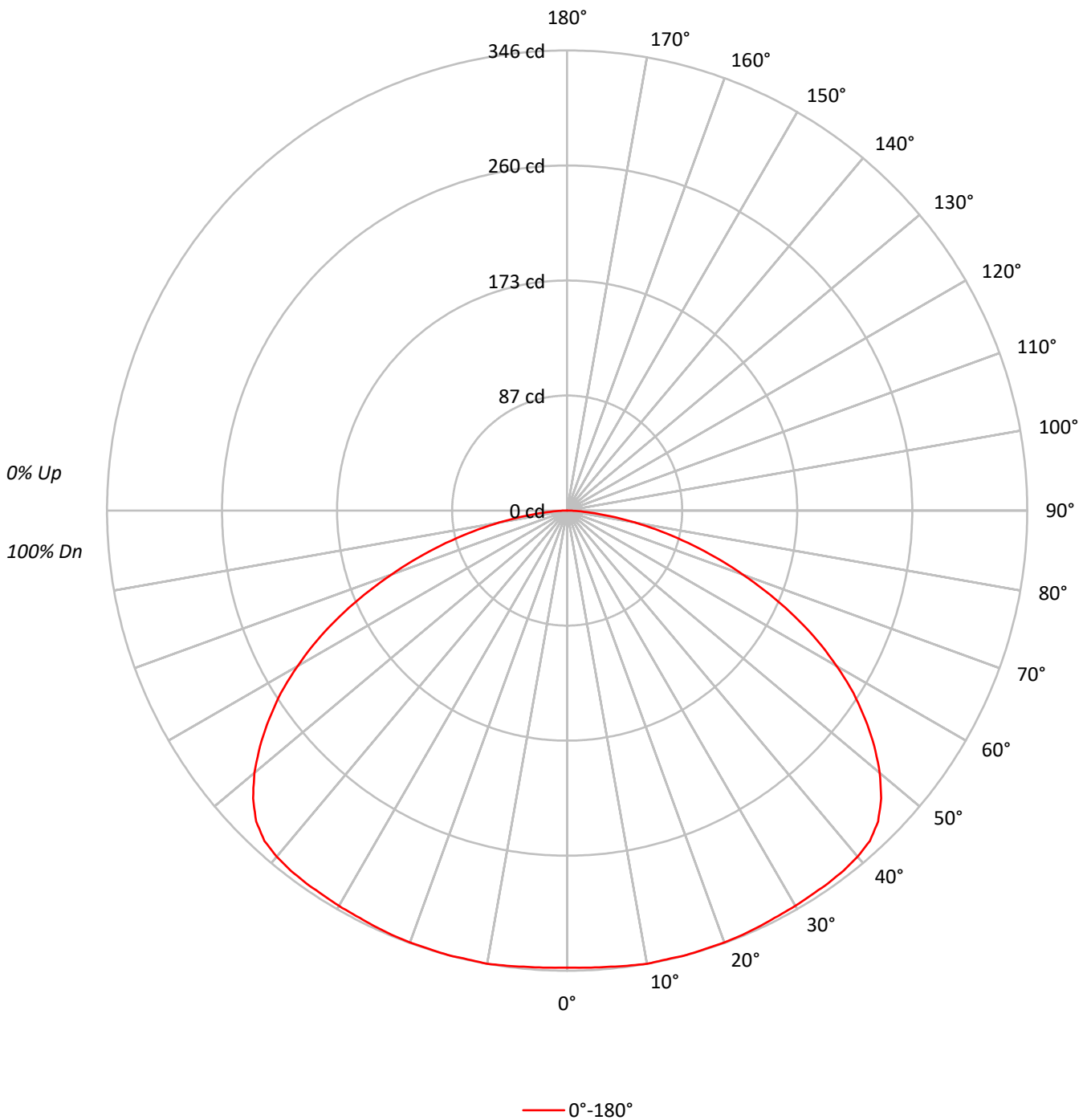
Lumens per Lamp: N/A
Luminaire Lumens: 1311.5 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866960

CATALOG NUMBER: PRLX-2002-L-927-48L-G-X-X-BLAK-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	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°	1695
5°	1706
10°	1733
15°	1767
20°	1815
25°	1875
30°	1955
35°	2060
40°	2188
45°	2307
50°	2356
55°	2354
60°	2311
65°	2209
70°	2028
75°	1800
80°	1469
85°	985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2359 cd/sqm

TEST NUMBER: P866960

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	2.5
10°-20°	98.0	7.5
20°-30°	159.4	12.2
30°-40°	214.7	16.4
40°-50°	253.5	19.3
50°-60°	244.0	18.6
60°-70°	186.6	14.2
70°-80°	100.2	7.6
80°-90°	22.3	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°	290.3	22.1
0°-40°	505.0	38.5
0°-60°	1002.5	76.4
0°-90°	1311.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	344	
5°	344	33
15°	346	98
25°	344	159
35°	342	215
45°	331	253
55°	274	244
65°	189	187
75°	94	100
85°	17	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	343.6
2.5°	344.0
5°	344.4
7.5°	345.2
10°	346.0
12.5°	345.6
15°	346.0
17.5°	345.6
20°	345.6
22.5°	345.2
25°	344.4
27.5°	343.6
30°	343.2
32.5°	342.4
35°	342.1
37.5°	341.3
40°	339.7
42.5°	336.9
45°	330.6
47.5°	320.3
50°	306.9
52.5°	291.1
55°	273.7
57.5°	255.2
60°	234.2
62.5°	212.5
65°	189.2
67.5°	165.1
70°	140.6
72.5°	117.3
75°	94.4
77.5°	72.3
80°	51.7
82.5°	32.8
85°	17.4
87.5°	5.9
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	15.60	17.31	15.96	17.63	17.94	15.60	17.31	15.96	17.63	17.94
	3H	17.35	18.90	17.73	19.23	19.59	17.35	18.90	17.73	19.23	19.59
	4H	17.96	19.42	18.35	19.77	20.14	17.96	19.42	18.35	19.77	20.14
	6H	18.35	19.71	18.76	20.08	20.47	18.35	19.71	18.76	20.08	20.47
	8H	18.45	19.75	18.88	20.14	20.54	18.45	19.75	18.88	20.14	20.54
	12H	18.50	19.75	18.93	20.13	20.56	18.50	19.75	18.93	20.13	20.56
4H	2H	16.25	17.71	16.64	18.06	18.43	16.25	17.71	16.64	18.06	18.43
	3H	18.20	19.43	18.61	19.83	20.23	18.20	19.43	18.61	19.83	20.23
	4H	18.92	20.04	19.35	20.45	20.88	18.92	20.04	19.35	20.45	20.88
	6H	19.43	20.40	19.88	20.84	21.30	19.43	20.40	19.88	20.84	21.30
	8H	19.56	20.48	20.02	20.92	21.38	19.56	20.48	20.02	20.92	21.38
	12H	19.65	20.47	20.12	20.94	21.41	19.65	20.47	20.12	20.94	21.41
8H	4H	19.21	20.12	19.67	20.56	21.02	19.21	20.12	19.67	20.56	21.02
	6H	19.81	20.57	20.30	21.05	21.53	19.81	20.57	20.30	21.05	21.53
	8H	19.99	20.68	20.50	21.18	21.66	19.99	20.68	20.50	21.18	21.66
	12H	20.12	20.72	20.62	21.21	21.77	20.12	20.72	20.62	21.21	21.77
12H	4H	19.23	20.06	19.71	20.53	21.00	19.23	20.06	19.71	20.53	21.00
	6H	19.84	20.53	20.35	21.03	21.51	19.84	20.53	20.35	21.03	21.51
	8H	20.08	20.68	20.58	21.17	21.73	20.08	20.68	20.58	21.17	21.73