

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: P866260

Luminaire Tested: PRLX-2002-M-930-65L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-65L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

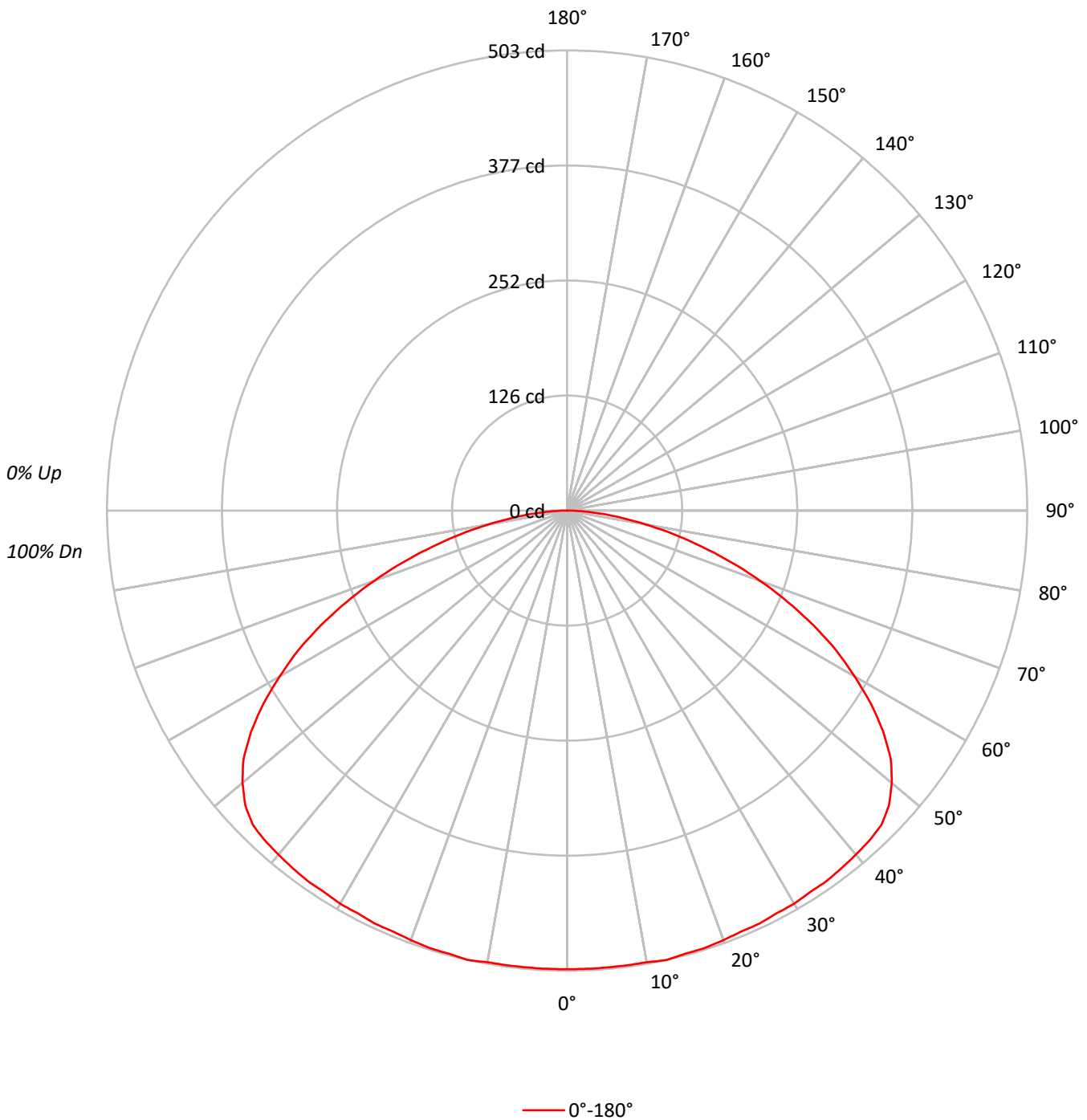
Lumens per Lamp: N/A
Luminaire Lumens: 1975.0 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	108	103	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3988
5°	4003
10°	4050
15°	4129
20°	4230
25°	4371
30°	4558
35°	4802
40°	5099
45°	5466
50°	5734
55°	5851
60°	5776
65°	5597
70°	5227
75°	4675
80°	3958
85°	3158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	2.4
10°-20°	142.1	7.2
20°-30°	230.2	11.7
30°-40°	310.1	15.7
40°-50°	373.2	18.9
50°-60°	374.9	19.0
60°-70°	292.9	14.8
70°-80°	162.2	8.2
80°-90°	41.4	2.1
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°	420.2	21.3
0°-40°	730.3	37.0
0°-60°	1478.4	74.9
0°-90°	1975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	501	
5°	501	48
15°	501	142
25°	498	230
35°	494	310
45°	486	373
55°	422	375
65°	297	293
75°	152	162
85°	35	41
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	501.3
2.5°	501.3
5°	501.3
7.5°	501.3
10°	501.3
12.5°	503.1
15°	501.3
17.5°	501.3
20°	499.6
22.5°	497.9
25°	497.9
27.5°	496.2
30°	496.2
32.5°	494.4
35°	494.4
37.5°	492.7
40°	491.0
42.5°	489.2
45°	485.8
47.5°	477.1
50°	463.3
52.5°	446.0
55°	421.8
57.5°	394.2
60°	363.0
62.5°	331.9
65°	297.3
67.5°	261.0
70°	224.7
72.5°	188.4
75°	152.1
77.5°	119.3
80°	86.4
82.5°	58.8
85°	34.6
87.5°	15.6
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	18.83	20.57	19.20	20.88	21.20	18.83	20.57	19.20	20.88	21.20
	3H	20.66	22.24	21.04	22.56	22.92	20.66	22.24	21.04	22.56	22.92
	4H	21.31	22.79	21.70	23.14	23.51	21.31	22.79	21.70	23.14	23.51
	6H	21.75	23.13	22.16	23.50	23.88	21.75	23.13	22.16	23.50	23.88
	8H	21.88	23.20	22.30	23.59	23.99	21.88	23.20	22.30	23.59	23.99
	12H	21.96	23.23	22.39	23.61	24.04	21.96	23.23	22.39	23.61	24.04
4H	2H	19.50	20.99	19.90	21.34	21.71	19.50	20.99	19.90	21.34	21.71
	3H	21.54	22.80	21.95	23.19	23.59	21.54	22.80	21.95	23.19	23.59
	4H	22.30	23.44	22.73	23.85	24.28	22.30	23.44	22.73	23.85	24.28
	6H	22.86	23.86	23.31	24.30	24.75	22.86	23.86	23.31	24.30	24.75
	8H	23.03	23.97	23.49	24.41	24.87	23.03	23.97	23.49	24.41	24.87
	12H	23.16	24.00	23.63	24.47	24.94	23.16	24.00	23.63	24.47	24.94
8H	4H	22.61	23.54	23.07	23.98	24.45	22.61	23.54	23.07	23.98	24.45
	6H	23.28	24.05	23.77	24.54	25.01	23.28	24.05	23.77	24.54	25.01
	8H	23.51	24.21	24.01	24.71	25.19	23.51	24.21	24.01	24.71	25.19
	12H	23.69	24.31	24.20	24.80	25.36	23.69	24.31	24.20	24.80	25.36
12H	4H	22.64	23.49	23.12	23.96	24.43	22.64	23.49	23.12	23.96	24.43
	6H	23.32	24.02	23.83	24.53	25.01	23.32	24.02	23.83	24.53	25.01
	8H	23.61	24.23	24.12	24.72	25.27	23.61	24.23	24.12	24.72	25.27