

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: P867072

Luminaire Tested: PRLX-2002-L-935-15L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867072
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: Pentalux
Catalog Number: PRLX-2002-L-935-15L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

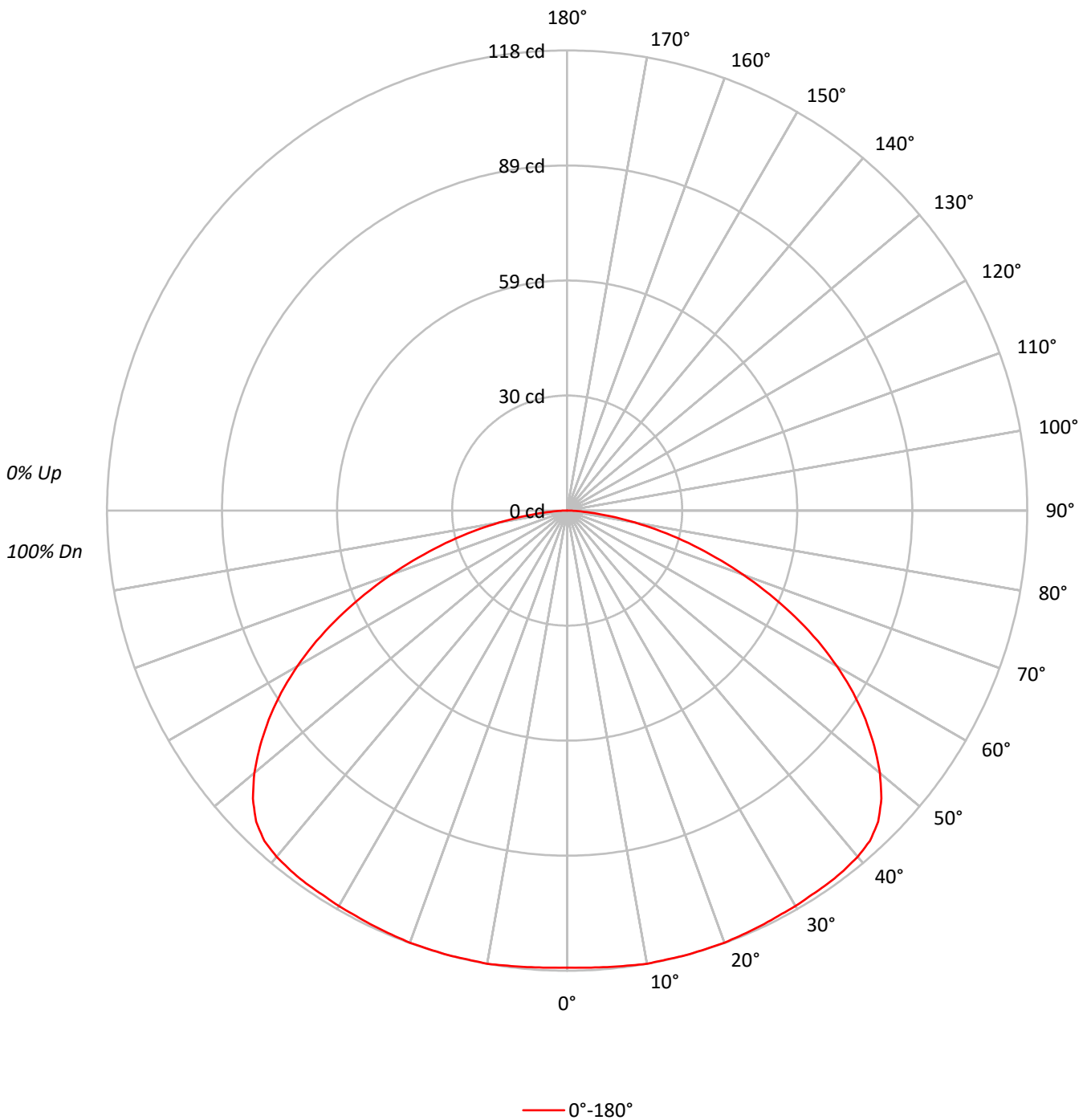
Lumens per Lamp: N/A
Luminaire Lumens: 447.4 lumens
Efficiency: N/A
Efficacy: 27.3 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	578
5°	582
10°	591
15°	603
20°	619
25°	640
30°	667
35°	703
40°	746
45°	787
50°	804
55°	803
60°	788
65°	753
70°	692
75°	614
80°	500
85°	334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 805 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	2.5
10°-20°	33.4	7.5
20°-30°	54.4	12.2
30°-40°	73.2	16.4
40°-50°	86.5	19.3
50°-60°	83.2	18.6
60°-70°	63.6	14.2
70°-80°	34.2	7.6
80°-90°	7.6	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°	99.0	22.1
0°-40°	172.3	38.5
0°-60°	342.0	76.4
0°-90°	447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	117	
5°	118	11
15°	118	33
25°	118	54
35°	117	73
45°	113	86
55°	93	83
65°	64	64
75°	32	34
85°	6	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	117.2
2.5°	117.3
5°	117.5
7.5°	117.7
10°	118.0
12.5°	117.9
15°	118.0
17.5°	117.9
20°	117.9
22.5°	117.7
25°	117.5
27.5°	117.2
30°	117.1
32.5°	116.8
35°	116.7
37.5°	116.4
40°	115.9
42.5°	114.9
45°	112.8
47.5°	109.3
50°	104.7
52.5°	99.3
55°	93.4
57.5°	87.0
60°	79.9
62.5°	72.5
65°	64.5
67.5°	56.3
70°	48.0
72.5°	40.0
75°	32.2
77.5°	24.7
80°	17.6
82.5°	11.2
85°	5.9
87.5°	2.0
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	11.86	13.57	12.22	13.89	14.20	11.86	13.57	12.22	13.89	14.20
	3H	13.61	15.17	13.99	15.49	15.85	13.61	15.17	13.99	15.49	15.85
	4H	14.22	15.68	14.62	16.03	16.40	14.22	15.68	14.62	16.03	16.40
	6H	14.61	15.98	15.02	16.34	16.73	14.61	15.98	15.02	16.34	16.73
	8H	14.72	16.02	15.14	16.41	16.80	14.72	16.02	15.14	16.41	16.80
	12H	14.77	16.01	15.20	16.40	16.82	14.77	16.01	15.20	16.40	16.82
4H	2H	12.51	13.97	12.90	14.32	14.69	12.51	13.97	12.90	14.32	14.69
	3H	14.46	15.69	14.87	16.09	16.49	14.46	15.69	14.87	16.09	16.49
	4H	15.18	16.30	15.62	16.71	17.15	15.18	16.30	15.62	16.71	17.15
	6H	15.69	16.67	16.14	17.11	17.56	15.69	16.67	16.14	17.11	17.56
	8H	15.83	16.74	16.29	17.18	17.64	15.83	16.74	16.29	17.18	17.64
	12H	15.91	16.73	16.39	17.20	17.67	15.91	16.73	16.39	17.20	17.67
8H	4H	15.47	16.38	15.93	16.82	17.29	15.47	16.38	15.93	16.82	17.29
	6H	16.07	16.83	16.56	17.32	17.79	16.07	16.83	16.56	17.32	17.79
	8H	16.26	16.94	16.76	17.44	17.93	16.26	16.94	16.76	17.44	17.93
	12H	16.38	16.98	16.89	17.47	18.03	16.38	16.98	16.89	17.47	18.03
12H	4H	15.50	16.32	15.97	16.79	17.26	15.50	16.32	15.97	16.79	17.26
	6H	16.11	16.79	16.61	17.29	17.78	16.11	16.79	16.61	17.29	17.78
	8H	16.34	16.94	16.84	17.43	17.99	16.34	16.94	16.84	17.43	17.99