

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: P867080

Luminaire Tested: PRLX-2002-L-935-32L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867080
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-935-32L-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 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

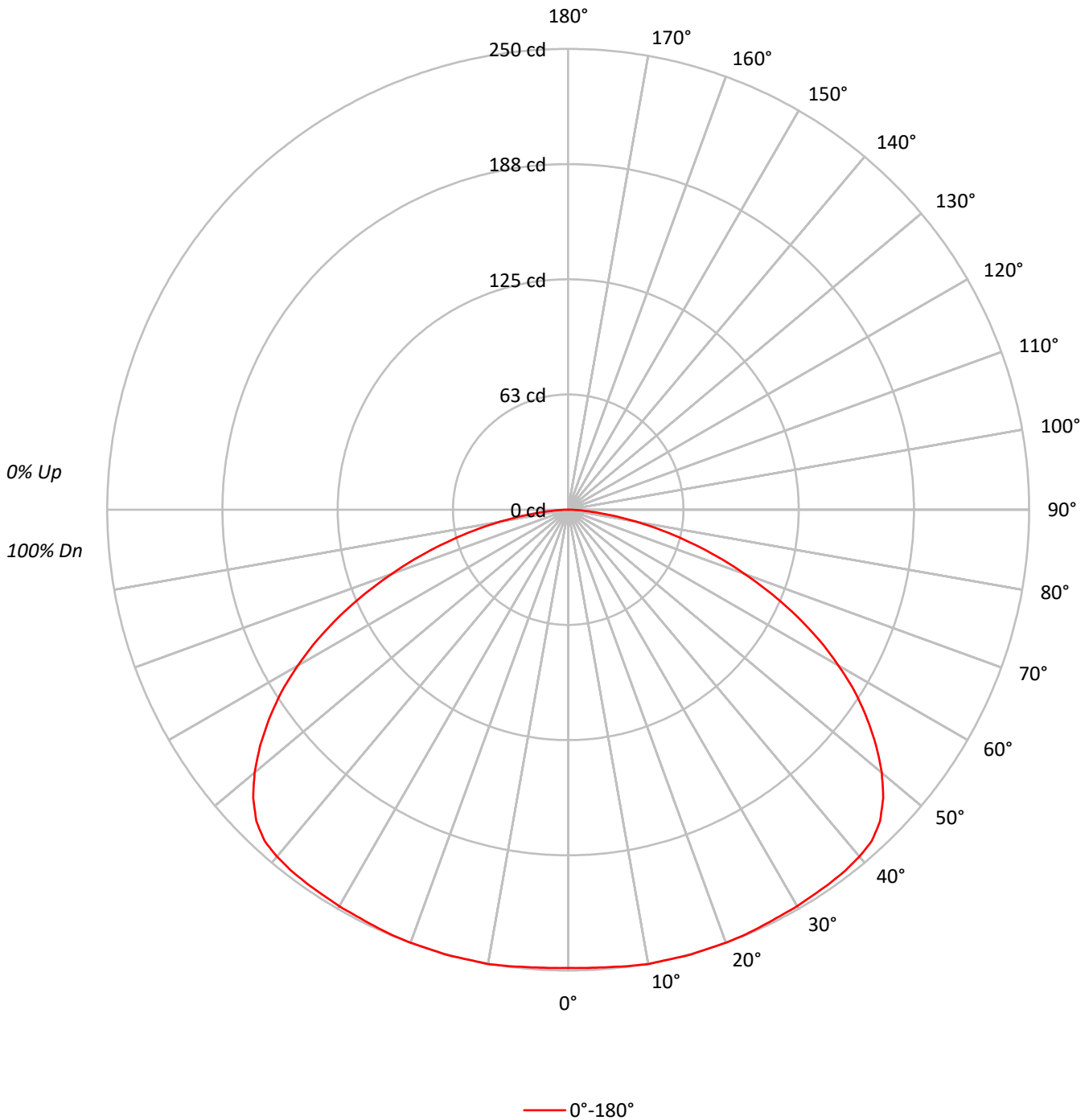
Lumens per Lamp: N/A
Luminaire Lumens: 948.7 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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°	1227
5°	1234
10°	1254
15°	1278
20°	1313
25°	1356
30°	1415
35°	1490
40°	1582
45°	1668
50°	1704
55°	1703
60°	1672
65°	1597
70°	1467
75°	1302
80°	1063
85°	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	2.5
10°-20°	70.9	7.5
20°-30°	115.3	12.2
30°-40°	155.3	16.4
40°-50°	183.4	19.3
50°-60°	176.5	18.6
60°-70°	134.9	14.2
70°-80°	72.5	7.6
80°-90°	16.1	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°	210.0	22.1
0°-40°	365.3	38.5
0°-60°	725.1	76.4
0°-90°	948.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	249	
5°	249	24
15°	250	71
25°	249	115
35°	247	155
45°	239	183
55°	198	176
65°	137	135
75°	68	72
85°	13	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	248.6
2.5°	248.8
5°	249.1
7.5°	249.7
10°	250.3
12.5°	250.0
15°	250.3
17.5°	250.0
20°	250.0
22.5°	249.7
25°	249.1
27.5°	248.6
30°	248.3
32.5°	247.7
35°	247.4
37.5°	246.8
40°	245.7
42.5°	243.7
45°	239.1
47.5°	231.7
50°	222.0
52.5°	210.6
55°	198.0
57.5°	184.6
60°	169.4
62.5°	153.7
65°	136.8
67.5°	119.4
70°	101.7
72.5°	84.9
75°	68.3
77.5°	52.3
80°	37.4
82.5°	23.7
85°	12.6
87.5°	4.3
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	14.47	16.19	14.84	16.50	16.82	14.47	16.19	14.84	16.50	16.82
	3H	16.23	17.78	16.60	18.10	18.46	16.23	17.78	16.60	18.10	18.46
	4H	16.83	18.30	17.23	18.64	19.02	16.83	18.30	17.23	18.64	19.02
	6H	17.23	18.59	17.64	18.95	19.34	17.23	18.59	17.64	18.95	19.34
	8H	17.33	18.63	17.75	19.02	19.41	17.33	18.63	17.75	19.02	19.41
	12H	17.38	18.63	17.81	19.01	19.44	17.38	18.63	17.81	19.01	19.44
4H	2H	15.12	16.59	15.52	16.93	17.31	15.12	16.59	15.52	16.93	17.31
	3H	17.07	18.31	17.48	18.70	19.10	17.07	18.31	17.48	18.70	19.10
	4H	17.80	18.91	18.23	19.32	19.76	17.80	18.91	18.23	19.32	19.76
	6H	18.30	19.28	18.76	19.72	20.17	18.30	19.28	18.76	19.72	20.17
	8H	18.44	19.35	18.90	19.79	20.26	18.44	19.35	18.90	19.79	20.26
	12H	18.52	19.34	19.00	19.82	20.28	18.52	19.34	19.00	19.82	20.28
8H	4H	18.08	19.00	18.54	19.44	19.90	18.08	19.00	18.54	19.44	19.90
	6H	18.68	19.44	19.17	19.93	20.40	18.68	19.44	19.17	19.93	20.40
	8H	18.87	19.55	19.37	20.05	20.54	18.87	19.55	19.37	20.05	20.54
	12H	18.99	19.60	19.50	20.09	20.64	18.99	19.60	19.50	20.09	20.64
12H	4H	18.11	18.93	18.59	19.40	19.87	18.11	18.93	18.59	19.40	19.87
	6H	18.72	19.40	19.22	19.91	20.39	18.72	19.40	19.22	19.91	20.39
	8H	18.95	19.55	19.46	20.04	20.60	18.95	19.55	19.46	20.04	20.60