

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: METALUX

Report Number: P1588744

Luminaire Tested: 24CZSP-A-57HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57HE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

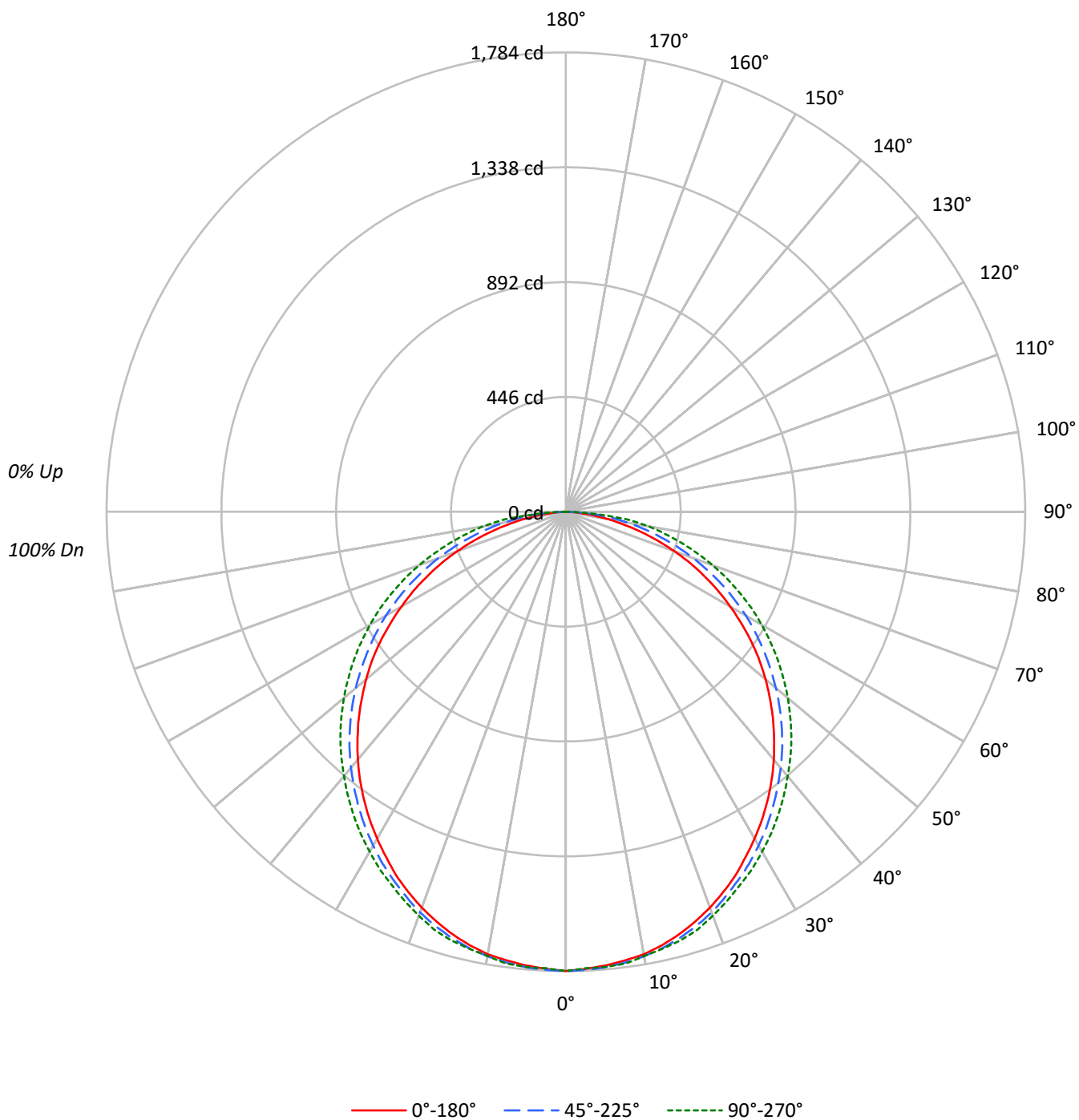
Lumens per Lamp: N/A
Luminaire Lumens: 5207.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2732	2732	2732
5°	2719	2730	2728
10°	2713	2726	2724
15°	2694	2716	2732
20°	2667	2698	2721
25°	2634	2670	2703
30°	2593	2647	2696
35°	2555	2621	2687
40°	2513	2595	2680
45°	2465	2569	2683
50°	2412	2537	2682
55°	2349	2502	2685
60°	2261	2474	2691
65°	2157	2426	2700
70°	2011	2359	2712
75°	1792	2265	2738
80°	1482	2157	2872
85°	963	1947	2509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2963 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.2
10°-20°	483.0	9.3
20°-30°	728.4	14.0
30°-40°	877.4	16.8
40°-50°	916.3	17.6
50°-60°	841.5	16.2
60°-70°	662.8	12.7
70°-80°	406.6	7.8
80°-90°	122.4	2.3
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°	1380.1	26.5
0°-40°	2257.5	43.4
0°-60°	4015.2	77.1
0°-90°	5207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1769	1771	1776	1781	1774	168
15°	1699	1702	1713	1723	1723	479
25°	1558	1562	1580	1600	1600	717
35°	1366	1373	1402	1430	1437	855
45°	1138	1151	1186	1227	1238	877
55°	880	896	937	990	1006	785
65°	595	616	670	726	745	589
75°	303	327	383	443	463	321
85°	55	75	111	140	143	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.5	1783.5	1783.5	1783.5	1783.5
2.5°	1776.7	1780.1	1781.3	1782.4	1774.4
5°	1768.7	1771.0	1775.5	1781.3	1774.4
7.5°	1757.3	1759.5	1765.3	1773.3	1769.8
10°	1744.7	1745.8	1752.7	1758.4	1751.5
12.5°	1724.1	1727.6	1735.5	1740.1	1737.8
15°	1699.0	1702.4	1712.7	1723.0	1723.0
17.5°	1669.3	1673.9	1686.4	1700.1	1701.3
20°	1636.1	1639.6	1655.6	1669.3	1669.3
22.5°	1598.4	1603.0	1619.0	1633.9	1636.1
25°	1558.5	1561.9	1580.2	1599.6	1599.6
27.5°	1511.6	1518.5	1541.3	1560.7	1565.3
30°	1465.9	1471.6	1496.8	1520.7	1524.2
32.5°	1417.9	1424.8	1451.1	1477.3	1483.0
35°	1366.5	1373.4	1401.9	1430.5	1437.3
37.5°	1312.8	1320.8	1350.5	1383.6	1390.5
40°	1256.8	1266.0	1297.9	1333.4	1340.2
42.5°	1197.4	1210.0	1244.2	1280.8	1291.1
45°	1138.0	1150.6	1186.0	1227.1	1238.5
47.5°	1075.1	1090.0	1126.6	1170.0	1182.5
50°	1012.3	1027.2	1064.9	1111.7	1125.4
52.5°	948.3	963.2	1002.0	1051.2	1066.0
55°	879.8	895.8	936.9	989.5	1005.5
57.5°	808.9	829.5	872.9	926.6	942.6
60°	738.1	758.7	807.8	860.3	878.6
62.5°	668.4	687.8	738.1	794.1	813.5
65°	595.3	615.8	669.5	725.5	744.9
67.5°	523.3	543.9	597.6	655.8	676.4
70°	449.0	471.9	526.7	585.0	605.6
72.5°	374.8	398.8	454.7	514.2	533.6
75°	302.8	326.8	382.8	443.3	462.7
77.5°	231.9	258.2	313.1	374.8	393.0
80°	168.0	193.1	244.5	305.1	325.6
82.5°	107.4	129.1	180.5	237.7	252.5
85°	54.8	75.4	110.8	140.5	142.8
87.5°	17.1	24.0	36.6	54.8	56.0
90°	0.0	0.0	0.0	0.0	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	14.97	16.63	15.33	16.95	17.26	15.80	17.46	16.16	17.78	18.09
	3H	16.73	18.23	17.10	18.56	18.92	17.92	19.42	18.29	19.75	20.11
	4H	17.34	18.77	17.74	19.11	19.49	18.80	20.23	19.20	20.57	20.95
	6H	17.75	19.08	18.17	19.44	19.83	19.59	20.91	20.00	21.27	21.66
	8H	17.86	19.12	18.29	19.51	19.91	19.91	21.17	20.33	21.56	21.96
	12H	17.91	19.12	18.34	19.51	19.93	20.12	21.33	20.55	21.71	22.14
4H	2H	15.74	17.16	16.14	17.51	17.89	16.39	17.81	16.79	18.16	18.53
	3H	17.72	18.92	18.13	19.31	19.71	18.74	19.94	19.15	20.34	20.74
	4H	18.46	19.54	18.89	19.95	20.39	19.79	20.88	20.23	21.29	21.73
	6H	18.98	19.94	19.44	20.38	20.83	20.75	21.70	21.20	22.14	22.59
	8H	19.13	20.02	19.59	20.46	20.93	21.14	22.04	21.60	22.48	22.94
	12H	19.21	20.02	19.69	20.49	20.96	21.42	22.22	21.90	22.70	23.17
8H	4H	18.91	19.81	19.37	20.25	20.71	20.08	20.98	20.54	21.42	21.88
	6H	19.58	20.32	20.07	20.81	21.28	21.20	21.94	21.69	22.43	22.90
	8H	19.79	20.45	20.29	20.96	21.44	21.71	22.38	22.21	22.88	23.37
	12H	19.93	20.52	20.43	21.01	21.57	22.09	22.68	22.60	23.17	23.73
12H	4H	19.00	19.81	19.48	20.28	20.75	20.11	20.91	20.59	21.39	21.85
	6H	19.71	20.38	20.21	20.88	21.37	21.24	21.91	21.75	22.42	22.90
	8H	19.99	20.58	20.49	21.07	21.63	21.82	22.41	22.33	22.90	23.46