

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: P1588750

Luminaire Tested: 24CZSP-A-57HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588750
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-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

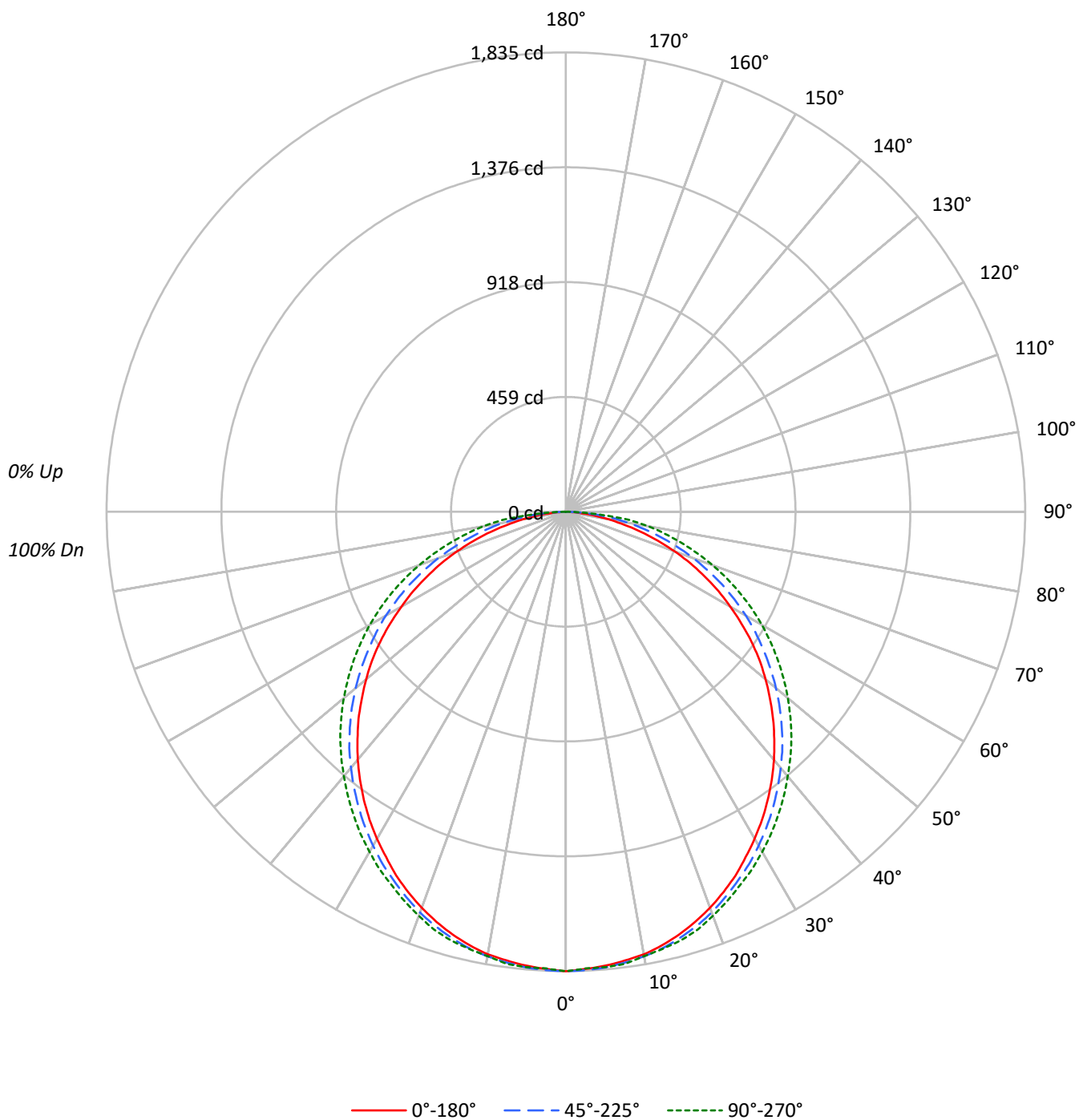
Lumens per Lamp: N/A
Luminaire Lumens: 5358.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588750

CATALOG NUMBER: 24CZSP-A-57HE-L950-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588750

CATALOG NUMBER: 24CZSP-A-57HE-L950-S

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°	2811	2811	2811
5°	2798	2809	2807
10°	2792	2805	2803
15°	2772	2795	2811
20°	2744	2777	2800
25°	2710	2748	2782
30°	2668	2724	2774
35°	2629	2697	2765
40°	2586	2670	2757
45°	2536	2643	2761
50°	2482	2611	2760
55°	2417	2574	2763
60°	2327	2546	2769
65°	2220	2497	2778
70°	2069	2427	2790
75°	1844	2331	2818
80°	1524	2219	2956
85°	991	2003	2583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3049 cd/sqm

TEST NUMBER: P1588750

CATALOG NUMBER: 24CZSP-A-57HE-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	3.2
10°-20°	497.0	9.3
20°-30°	749.5	14.0
30°-40°	902.8	16.8
40°-50°	942.9	17.6
50°-60°	865.9	16.2
60°-70°	682.0	12.7
70°-80°	418.4	7.8
80°-90°	125.9	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°	1420.1	26.5
0°-40°	2322.9	43.4
0°-60°	4131.7	77.1
0°-90°	5358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1820	1822	1827	1833	1826	173
15°	1748	1752	1762	1773	1773	493
25°	1604	1607	1626	1646	1646	738
35°	1406	1413	1443	1472	1479	879
45°	1171	1184	1220	1263	1274	903
55°	905	922	964	1018	1035	808
65°	612	634	689	747	767	606
75°	312	336	394	456	476	330
85°	56	78	114	145	147	74
90°	0	0	0	0	0	



TEST NUMBER: P1588750

CATALOG NUMBER: 24CZSP-A-57HE-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1828.2	1831.7	1832.9	1834.1	1825.9
5°	1820.0	1822.3	1827.0	1832.9	1825.9
7.5°	1808.2	1810.6	1816.4	1824.7	1821.1
10°	1795.3	1796.5	1803.5	1809.4	1802.3
12.5°	1774.1	1777.6	1785.9	1790.6	1788.2
15°	1748.3	1751.8	1762.4	1772.9	1772.9
17.5°	1717.7	1722.4	1735.3	1749.4	1750.6
20°	1683.6	1687.1	1703.6	1717.7	1717.7
22.5°	1644.8	1649.5	1666.0	1681.2	1683.6
25°	1603.6	1607.2	1626.0	1646.0	1646.0
27.5°	1555.4	1562.5	1586.0	1606.0	1610.7
30°	1508.4	1514.3	1540.2	1564.8	1568.4
32.5°	1459.0	1466.1	1493.1	1520.2	1526.1
35°	1406.1	1413.2	1442.6	1472.0	1479.0
37.5°	1350.9	1359.1	1389.7	1423.8	1430.8
40°	1293.3	1302.7	1335.6	1372.0	1379.1
42.5°	1232.1	1245.1	1280.3	1318.0	1328.5
45°	1171.0	1183.9	1220.4	1262.7	1274.5
47.5°	1106.3	1121.6	1159.2	1203.9	1216.8
50°	1041.7	1056.9	1095.7	1144.0	1158.1
52.5°	975.8	991.1	1031.1	1081.6	1096.9
55°	905.3	921.7	964.1	1018.2	1034.6
57.5°	832.4	853.6	898.2	953.5	969.9
60°	759.5	780.7	831.2	885.3	904.1
62.5°	687.8	707.8	759.5	817.1	837.1
65°	612.5	633.7	689.0	746.6	766.6
67.5°	538.5	559.6	614.9	674.8	696.0
70°	462.0	485.6	542.0	602.0	623.1
72.5°	385.6	410.3	467.9	529.1	549.0
75°	311.6	336.2	393.9	456.2	476.2
77.5°	238.7	265.7	322.1	385.6	404.4
80°	172.8	198.7	251.6	313.9	335.1
82.5°	110.5	132.9	185.8	244.5	259.8
85°	56.4	77.6	114.0	144.6	147.0
87.5°	17.6	24.7	37.6	56.4	57.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588750

CATALOG NUMBER: 24CZSP-A-57HE-L950-S

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	15.07	16.73	15.43	17.05	17.36	15.90	17.56	16.26	17.88	18.19
	3H	16.82	18.33	17.20	18.66	19.02	18.02	19.52	18.39	19.85	20.21
	4H	17.44	18.87	17.84	19.21	19.59	18.90	20.33	19.30	20.67	21.05
	6H	17.85	19.17	18.26	19.54	19.93	19.69	21.01	20.10	21.37	21.76
	8H	17.96	19.22	18.39	19.61	20.01	20.01	21.27	20.43	21.66	22.05
	12H	18.01	19.22	18.44	19.61	20.03	20.22	21.43	20.65	21.81	22.24
4H	2H	15.84	17.26	16.24	17.61	17.99	16.49	17.91	16.88	18.26	18.63
	3H	17.82	19.02	18.23	19.41	19.81	18.84	20.04	19.25	20.44	20.84
	4H	18.55	19.64	18.99	20.05	20.49	19.89	20.98	20.32	21.39	21.83
	6H	19.08	20.04	19.54	20.48	20.93	20.85	21.80	21.30	22.24	22.69
	8H	19.23	20.12	19.69	20.56	21.03	21.24	22.14	21.70	22.58	23.04
	12H	19.31	20.12	19.79	20.59	21.06	21.52	22.32	22.00	22.80	23.27
8H	4H	19.01	19.91	19.47	20.35	20.81	20.18	21.08	20.64	21.52	21.98
	6H	19.67	20.42	20.17	20.91	21.38	21.29	22.04	21.79	22.53	23.00
	8H	19.89	20.55	20.39	21.06	21.54	21.81	22.48	22.31	22.98	23.46
	12H	20.02	20.62	20.53	21.11	21.66	22.19	22.78	22.70	23.27	23.83
12H	4H	19.10	19.91	19.58	20.38	20.85	20.21	21.01	20.69	21.49	21.95
	6H	19.81	20.48	20.31	20.98	21.47	21.34	22.01	21.85	22.52	23.00
	8H	20.09	20.68	20.59	21.17	21.73	21.92	22.51	22.43	23.00	23.56