

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: P1587787

Luminaire Tested: 22CZSP-SB-54HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-54HE-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

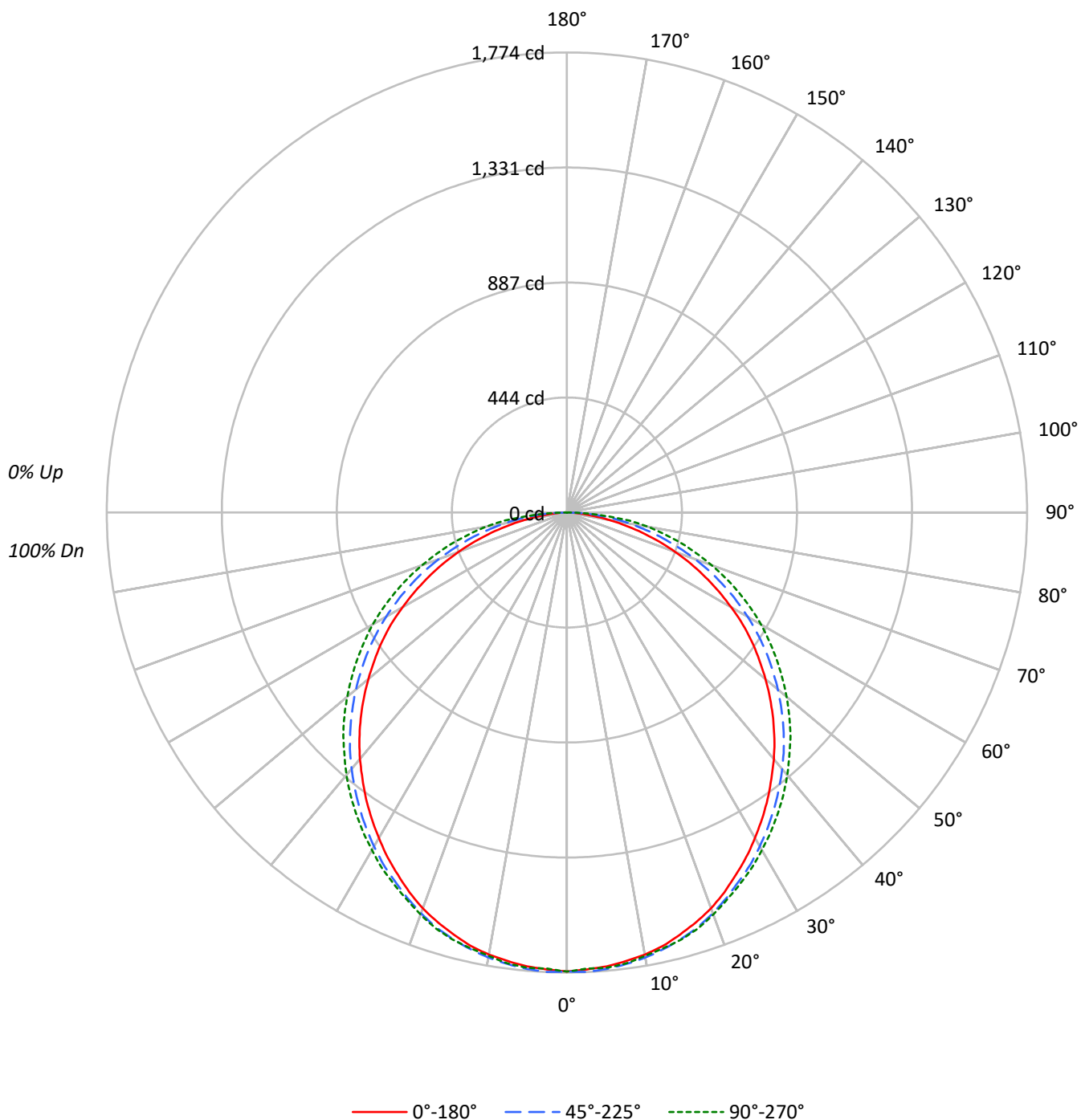
Lumens per Lamp: N/A
Luminaire Lumens: 5166.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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	68
3	89	79	70	63	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°	5543	5543	5543
5°	5523	5554	5540
10°	5503	5541	5521
15°	5462	5519	5526
20°	5414	5480	5498
25°	5327	5421	5459
30°	5242	5377	5436
35°	5158	5325	5417
40°	5073	5278	5403
45°	4977	5229	5399
50°	4868	5172	5385
55°	4757	5115	5384
60°	4581	5040	5417
65°	4366	4942	5420
70°	4074	4805	5436
75°	3625	4630	5529
80°	2977	4436	5738
85°	1965	4164	5184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5875 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.2
10°-20°	479.3	9.3
20°-30°	722.4	14.0
30°-40°	870.0	16.8
40°-50°	908.9	17.6
50°-60°	835.0	16.2
60°-70°	657.6	12.7
70°-80°	403.1	7.8
80°-90°	122.2	2.4
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°	1369.2	26.5
0°-40°	2239.1	43.3
0°-60°	3983.0	77.1
0°-90°	5166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1757	1760	1767	1765	1762	167
15°	1685	1692	1702	1709	1705	475
25°	1542	1552	1569	1585	1580	711
35°	1349	1367	1393	1418	1417	844
45°	1124	1148	1181	1214	1219	867
55°	871	897	937	978	986	777
65°	589	620	667	712	732	583
75°	300	335	383	429	457	318
85°	55	81	116	129	144	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.2	1770.2	1770.2	1770.2	1770.2
2.5°	1763.6	1768.0	1773.5	1764.7	1760.3
5°	1757.1	1760.3	1766.9	1764.7	1762.5
7.5°	1745.0	1747.2	1756.0	1756.0	1753.8
10°	1730.8	1735.2	1742.8	1741.8	1736.3
12.5°	1712.2	1715.5	1724.3	1724.3	1721.0
15°	1684.9	1691.5	1702.4	1709.0	1704.6
17.5°	1656.5	1663.0	1677.2	1683.8	1681.6
20°	1624.8	1630.2	1644.4	1654.3	1649.9
22.5°	1585.4	1592.0	1608.4	1619.3	1614.9
25°	1541.7	1551.5	1569.0	1585.4	1579.9
27.5°	1497.9	1508.9	1530.7	1547.1	1544.9
30°	1449.8	1464.0	1487.0	1507.8	1503.4
32.5°	1400.6	1417.0	1441.1	1462.9	1461.8
35°	1349.2	1366.7	1393.0	1418.1	1417.0
37.5°	1294.6	1315.3	1342.7	1370.0	1371.1
40°	1241.0	1260.7	1291.3	1320.8	1321.9
42.5°	1184.1	1204.9	1237.7	1268.3	1269.4
45°	1124.0	1148.0	1180.8	1213.7	1219.1
47.5°	1062.8	1087.9	1121.8	1156.8	1163.4
50°	999.3	1025.6	1061.7	1098.8	1105.4
52.5°	934.8	962.2	999.3	1036.5	1046.4
55°	871.4	896.6	937.0	977.5	986.2
57.5°	804.7	827.7	871.4	914.1	925.0
60°	731.5	759.9	804.7	847.4	864.9
62.5°	660.4	691.0	736.9	779.6	799.3
65°	589.3	619.9	667.0	711.8	731.5
67.5°	517.2	548.9	599.2	641.8	663.7
70°	445.0	476.7	524.8	570.7	593.7
72.5°	372.8	406.7	453.8	500.8	523.7
75°	299.6	334.6	382.7	428.6	457.0
77.5°	230.7	264.6	312.7	359.7	383.8
80°	165.1	199.0	246.0	293.0	318.2
82.5°	105.0	136.7	182.6	222.0	244.9
85°	54.7	80.9	115.9	129.0	144.3
87.5°	16.4	31.7	44.8	50.3	62.3
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	17.46	19.13	17.83	19.44	19.75	18.21	19.87	18.57	20.19	20.50
	3H	19.23	20.73	19.60	21.06	21.42	20.31	21.81	20.68	22.14	22.50
	4H	19.85	21.27	20.25	21.62	22.00	21.19	22.61	21.59	22.96	23.33
	6H	20.26	21.58	20.67	21.95	22.34	21.96	23.28	22.37	23.64	24.03
	8H	20.37	21.63	20.79	22.02	22.42	22.27	23.53	22.69	23.92	24.32
	12H	20.42	21.63	20.85	22.01	22.44	22.48	23.69	22.91	24.07	24.50
4H	2H	18.23	19.66	18.63	20.00	20.38	18.81	20.24	19.21	20.58	20.96
	3H	20.23	21.43	20.64	21.82	22.22	21.14	22.34	21.55	22.74	23.14
	4H	20.98	22.07	21.41	22.48	22.91	22.18	23.26	22.61	23.68	24.11
	6H	21.52	22.47	21.97	22.91	23.36	23.11	24.06	23.56	24.50	24.95
	8H	21.66	22.56	22.12	23.00	23.46	23.49	24.38	23.95	24.82	25.29
	12H	21.75	22.55	22.23	23.03	23.50	23.77	24.57	24.25	25.04	25.51
8H	4H	21.43	22.33	21.89	22.77	23.23	22.48	23.37	22.94	23.81	24.27
	6H	22.11	22.86	22.60	23.34	23.82	23.56	24.30	24.05	24.79	25.27
	8H	22.33	23.00	22.84	23.50	23.99	24.05	24.72	24.56	25.22	25.71
	12H	22.48	23.07	22.98	23.56	24.12	24.42	25.02	24.93	25.50	26.06
12H	4H	21.52	22.32	22.00	22.79	23.26	22.50	23.31	22.98	23.78	24.25
	6H	22.24	22.91	22.75	23.41	23.90	23.61	24.28	24.12	24.79	25.27
	8H	22.53	23.12	23.03	23.61	24.17	24.17	24.76	24.67	25.25	25.81