

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: P1587786

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-54HE-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

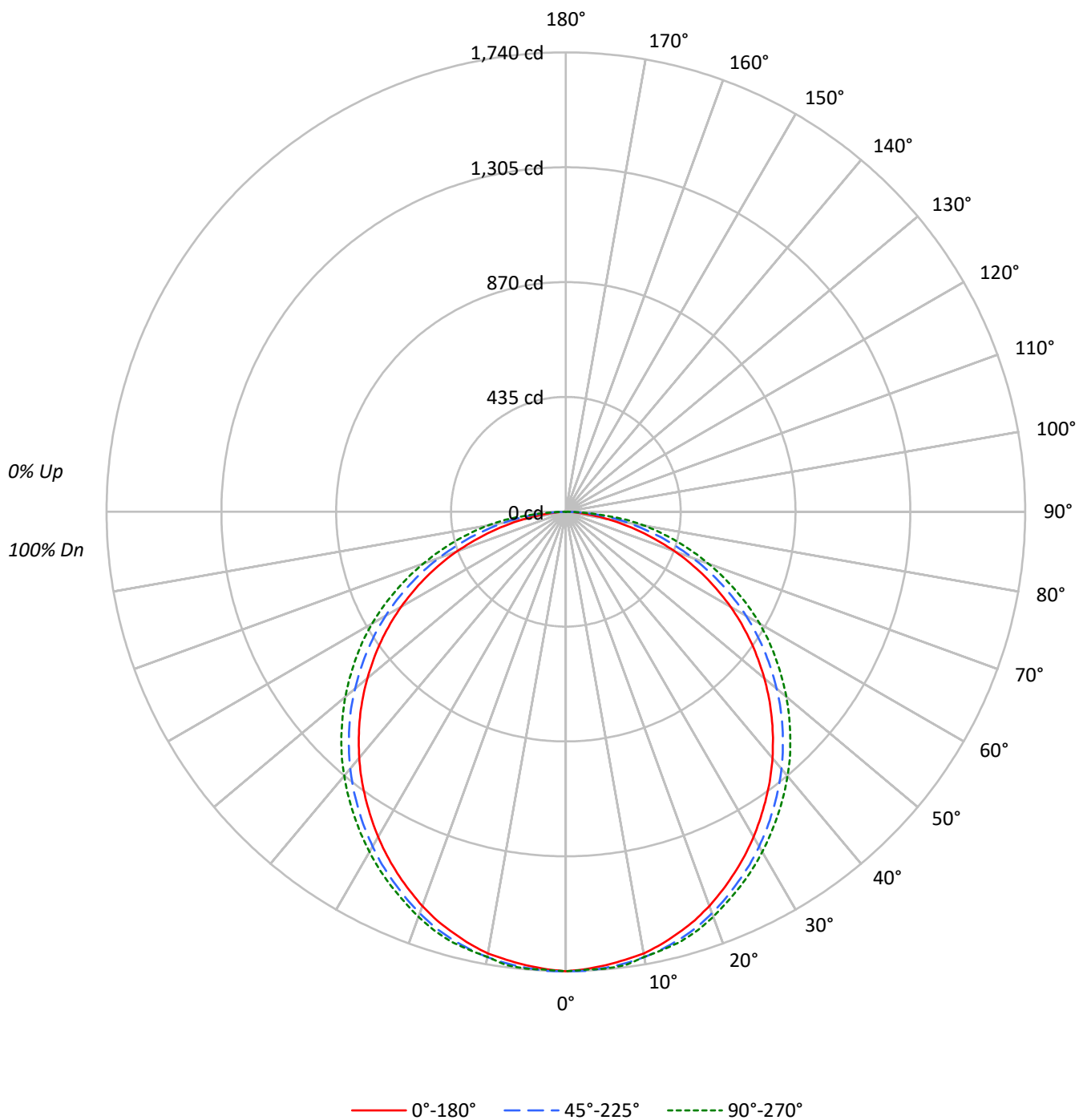
Lumens per Lamp: N/A
Luminaire Lumens: 5063.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5450	5450	5450
5°	5419	5450	5461
10°	5403	5448	5444
15°	5353	5430	5462
20°	5295	5393	5441
25°	5220	5340	5407
30°	5143	5293	5380
35°	5059	5242	5354
40°	4978	5196	5338
45°	4886	5141	5325
50°	4780	5078	5311
55°	4662	5013	5304
60°	4515	4939	5307
65°	4309	4834	5278
70°	4028	4687	5265
75°	3571	4507	5285
80°	2907	4281	5440
85°	1879	3952	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	3.3
10°-20°	471.7	9.3
20°-30°	711.1	14.0
30°-40°	855.7	16.9
40°-50°	892.6	17.6
50°-60°	818.1	16.2
60°-70°	642.4	12.7
70°-80°	391.0	7.7
80°-90°	115.7	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°	1347.5	26.6
0°-40°	2203.2	43.5
0°-60°	3913.9	77.3
0°-90°	5063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1724	1735	1734	1732	1737	164
15°	1651	1668	1675	1677	1685	466
25°	1511	1531	1546	1555	1565	696
35°	1323	1344	1371	1391	1401	828
45°	1103	1126	1161	1188	1202	851
55°	854	876	918	955	972	763
65°	582	603	652	696	712	575
75°	295	322	372	417	437	313
85°	52	74	110	123	131	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.5	1740.5	1740.5	1740.5	1740.5
2.5°	1733.9	1742.7	1740.5	1732.9	1736.1
5°	1724.1	1735.0	1733.9	1731.8	1737.2
7.5°	1712.2	1724.1	1725.2	1725.2	1731.8
10°	1699.1	1711.1	1713.3	1710.0	1712.2
12.5°	1677.3	1691.5	1695.8	1695.8	1699.1
15°	1651.2	1667.5	1675.1	1677.3	1684.9
17.5°	1622.9	1640.3	1650.1	1655.5	1662.1
20°	1589.1	1607.6	1618.5	1625.0	1632.7
22.5°	1551.0	1571.7	1583.6	1590.2	1598.9
25°	1510.7	1531.4	1545.5	1555.3	1565.1
27.5°	1468.2	1487.8	1507.4	1519.4	1528.1
30°	1422.4	1443.1	1463.8	1479.1	1487.8
32.5°	1373.4	1395.2	1419.2	1435.5	1445.3
35°	1323.3	1344.0	1371.3	1390.9	1400.7
37.5°	1272.1	1293.9	1322.2	1342.9	1354.9
40°	1217.7	1240.6	1271.1	1293.9	1305.9
42.5°	1161.0	1182.8	1216.6	1242.7	1256.9
45°	1103.3	1126.2	1161.0	1188.3	1202.4
47.5°	1043.4	1065.2	1103.3	1134.9	1146.9
50°	981.3	1002.0	1042.3	1076.1	1090.3
52.5°	918.2	939.9	980.2	1016.2	1031.4
55°	853.9	875.7	918.2	955.2	971.5
57.5°	788.6	810.3	853.9	892.0	911.6
60°	721.0	742.8	788.6	827.8	847.4
62.5°	651.3	674.2	721.0	761.3	782.0
65°	581.6	603.4	652.4	696.0	712.3
67.5°	511.9	533.7	581.6	625.2	644.8
70°	440.0	465.1	511.9	557.7	575.1
72.5°	364.9	393.2	440.0	487.9	505.4
75°	295.2	322.4	372.5	417.1	436.8
77.5°	226.5	256.0	302.8	348.5	368.1
80°	161.2	189.5	237.4	281.0	301.7
82.5°	102.4	127.4	175.4	214.6	229.8
85°	52.3	74.1	110.0	123.1	130.7
87.5°	15.2	26.1	39.2	49.0	54.5
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	17.39	19.05	17.76	19.36	19.68	18.13	19.79	18.49	20.10	20.41
	3H	19.16	20.66	19.54	20.99	21.35	20.21	21.71	20.58	22.04	22.40
	4H	19.78	21.20	20.18	21.55	21.92	21.07	22.49	21.47	22.84	23.21
	6H	20.19	21.51	20.60	21.87	22.26	21.81	23.13	22.23	23.50	23.89
	8H	20.29	21.55	20.71	21.94	22.34	22.11	23.37	22.53	23.76	24.16
	12H	20.34	21.55	20.77	21.93	22.36	22.30	23.51	22.73	23.89	24.32
4H	2H	18.16	19.58	18.56	19.93	20.30	18.73	20.15	19.13	20.50	20.87
	3H	20.15	21.35	20.56	21.74	22.14	21.04	22.24	21.45	22.64	23.03
	4H	20.89	21.98	21.32	22.39	22.82	22.06	23.15	22.49	23.56	23.99
	6H	21.42	22.37	21.87	22.81	23.26	22.97	23.92	23.42	24.36	24.81
	8H	21.56	22.45	22.02	22.89	23.36	23.33	24.22	23.79	24.67	25.13
	12H	21.64	22.44	22.12	22.92	23.39	23.59	24.39	24.07	24.86	25.33
8H	4H	21.34	22.23	21.80	22.67	23.13	22.36	23.25	22.82	23.69	24.15
	6H	22.00	22.74	22.49	23.23	23.70	23.42	24.16	23.91	24.65	25.12
	8H	22.21	22.88	22.72	23.38	23.87	23.89	24.55	24.40	25.06	25.54
	12H	22.35	22.94	22.85	23.43	23.99	24.24	24.83	24.75	25.32	25.88
12H	4H	21.42	22.22	21.90	22.69	23.16	22.39	23.19	22.86	23.66	24.13
	6H	22.13	22.79	22.63	23.30	23.78	23.47	24.14	23.97	24.64	25.12
	8H	22.40	22.99	22.91	23.48	24.04	24.01	24.60	24.51	25.08	25.64