

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: P1587776

Luminaire Tested: 22CZSP-SB-54HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587776
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

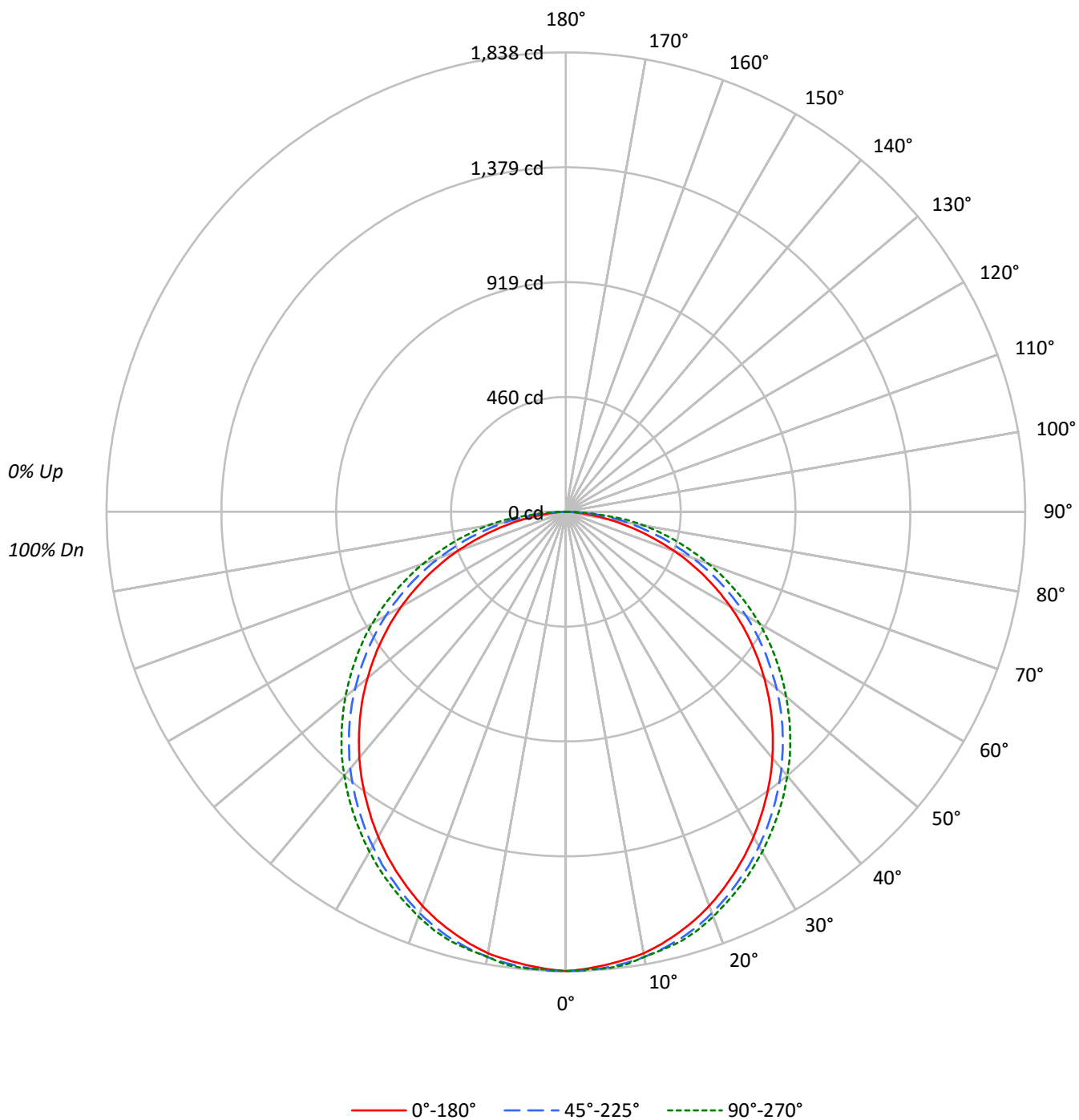
Lumens per Lamp: N/A
Luminaire Lumens: 5346.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5755	5755	5755
5°	5722	5755	5766
10°	5705	5752	5748
15°	5652	5734	5767
20°	5591	5695	5745
25°	5511	5638	5710
30°	5431	5589	5680
35°	5341	5535	5654
40°	5255	5486	5636
45°	5159	5429	5622
50°	5048	5362	5608
55°	4922	5293	5600
60°	4768	5214	5603
65°	4550	5104	5573
70°	4254	4948	5559
75°	3771	4758	5580
80°	3069	4521	5745
85°	1983	4175	4958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	3.3
10°-20°	498.0	9.3
20°-30°	750.9	14.0
30°-40°	903.5	16.9
40°-50°	942.4	17.6
50°-60°	863.8	16.2
60°-70°	678.3	12.7
70°-80°	412.9	7.7
80°-90°	122.2	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°	1422.9	26.6
0°-40°	2326.4	43.5
0°-60°	4132.7	77.3
0°-90°	5346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1820	1832	1831	1829	1834	173
15°	1744	1761	1769	1771	1779	492
25°	1595	1617	1632	1642	1653	735
35°	1397	1419	1448	1469	1479	874
45°	1165	1189	1226	1255	1270	898
55°	902	925	970	1009	1026	806
65°	614	637	689	735	752	607
75°	312	340	393	440	461	330
85°	55	78	116	130	138	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.8	1837.8	1837.8	1837.8	1837.8
2.5°	1830.9	1840.1	1837.8	1829.7	1833.2
5°	1820.5	1832.0	1830.9	1828.6	1834.3
7.5°	1807.9	1820.5	1821.7	1821.7	1828.6
10°	1794.1	1806.7	1809.0	1805.6	1807.9
12.5°	1771.1	1786.0	1790.6	1790.6	1794.1
15°	1743.5	1760.7	1768.8	1771.1	1779.1
17.5°	1713.6	1732.0	1742.3	1748.1	1755.0
20°	1677.9	1697.5	1709.0	1715.9	1723.9
22.5°	1637.7	1659.5	1672.2	1679.1	1688.3
25°	1595.1	1617.0	1631.9	1642.3	1652.6
27.5°	1550.3	1571.0	1591.7	1604.3	1613.5
30°	1502.0	1523.8	1545.7	1561.8	1571.0
32.5°	1450.2	1473.2	1498.5	1515.8	1526.1
35°	1397.3	1419.2	1447.9	1468.6	1479.0
37.5°	1343.3	1366.3	1396.2	1418.0	1430.7
40°	1285.7	1309.9	1342.1	1366.3	1378.9
42.5°	1225.9	1248.9	1284.6	1312.2	1327.2
45°	1165.0	1189.1	1225.9	1254.7	1269.6
47.5°	1101.7	1124.7	1165.0	1198.3	1211.0
50°	1036.2	1058.0	1100.6	1136.2	1151.2
52.5°	969.5	992.5	1035.0	1073.0	1089.1
55°	901.6	924.6	969.5	1008.6	1025.8
57.5°	832.6	855.6	901.6	941.9	962.6
60°	761.3	784.3	832.6	874.0	894.7
62.5°	687.7	711.9	761.3	803.9	825.7
65°	614.1	637.1	688.9	734.9	752.1
67.5°	540.5	563.5	614.1	660.1	680.8
70°	464.6	491.1	540.5	588.8	607.2
72.5°	385.3	415.2	464.6	515.2	533.6
75°	311.7	340.4	393.3	440.5	461.2
77.5°	239.2	270.3	319.7	368.0	388.7
80°	170.2	200.1	250.7	296.7	318.6
82.5°	108.1	134.6	185.2	226.6	242.7
85°	55.2	78.2	116.2	130.0	138.0
87.5°	16.1	27.6	41.4	51.8	57.5
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	17.58	19.24	17.94	19.55	19.87	18.31	19.97	18.68	20.29	20.60
	3H	19.35	20.85	19.72	21.18	21.54	20.39	21.90	20.77	22.22	22.58
	4H	19.97	21.39	20.37	21.73	22.11	21.26	22.68	21.66	23.03	23.40
	6H	20.38	21.69	20.79	22.06	22.45	22.00	23.32	22.41	23.69	24.08
	8H	20.48	21.74	20.90	22.13	22.53	22.30	23.56	22.72	23.95	24.35
	12H	20.53	21.74	20.96	22.12	22.55	22.49	23.70	22.92	24.08	24.51
4H	2H	18.35	19.77	18.75	20.11	20.49	18.92	20.34	19.32	20.69	21.06
	3H	20.34	21.53	20.75	21.93	22.33	21.23	22.43	21.64	22.82	23.22
	4H	21.08	22.17	21.51	22.58	23.01	22.25	23.33	22.68	23.75	24.18
	6H	21.61	22.56	22.06	23.00	23.45	23.16	24.11	23.61	24.55	25.00
	8H	21.75	22.64	22.21	23.08	23.55	23.52	24.41	23.98	24.85	25.32
	12H	21.83	22.63	22.31	23.11	23.58	23.78	24.58	24.26	25.05	25.52
8H	4H	21.53	22.42	21.99	22.86	23.32	22.55	23.44	23.01	23.88	24.34
	6H	22.19	22.93	22.68	23.42	23.89	23.61	24.35	24.10	24.83	25.31
	8H	22.40	23.07	22.91	23.57	24.06	24.08	24.74	24.59	25.25	25.73
	12H	22.54	23.13	23.04	23.62	24.17	24.43	25.02	24.94	25.51	26.07
12H	4H	21.61	22.41	22.09	22.88	23.35	22.57	23.38	23.05	23.85	24.32
	6H	22.31	22.98	22.82	23.49	23.97	23.66	24.32	24.16	24.83	25.31
	8H	22.59	23.18	23.10	23.67	24.23	24.19	24.78	24.70	25.27	25.83