

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: P1587780

Luminaire Tested: 22CZSP-SB-54HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587780
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-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

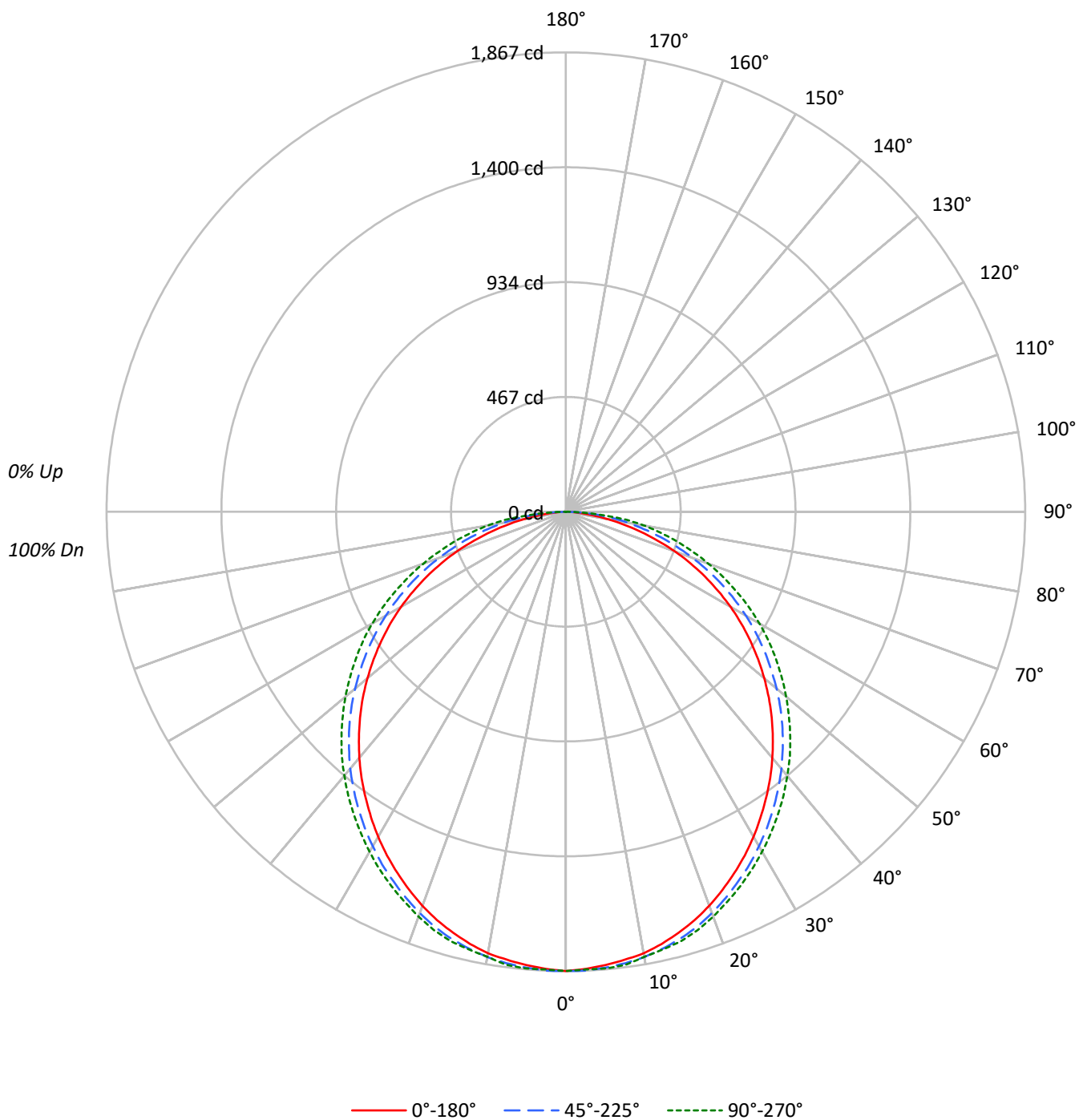
Lumens per Lamp: N/A
Luminaire Lumens: 5430.0 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5845	5845	5845
5°	5812	5845	5856
10°	5794	5842	5839
15°	5741	5824	5858
20°	5679	5784	5835
25°	5598	5727	5800
30°	5516	5676	5769
35°	5425	5622	5742
40°	5338	5572	5725
45°	5240	5514	5711
50°	5127	5446	5696
55°	5000	5376	5689
60°	4843	5296	5691
65°	4622	5184	5660
70°	4320	5026	5647
75°	3830	4833	5667
80°	3118	4591	5835
85°	2016	4239	5037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.3
10°-20°	505.9	9.3
20°-30°	762.7	14.0
30°-40°	917.7	16.9
40°-50°	957.3	17.6
50°-60°	877.4	16.2
60°-70°	689.0	12.7
70°-80°	419.3	7.7
80°-90°	124.1	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°	1445.2	26.6
0°-40°	2362.9	43.5
0°-60°	4197.6	77.3
0°-90°	5430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1849	1861	1860	1857	1863	176
15°	1771	1788	1797	1799	1807	500
25°	1620	1642	1658	1668	1679	747
35°	1419	1442	1471	1492	1502	888
45°	1183	1208	1245	1274	1290	912
55°	916	939	985	1024	1042	818
65°	624	647	700	746	764	617
75°	317	346	400	447	468	336
85°	56	79	118	132	140	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.6	1866.6	1866.6	1866.6	1866.6
2.5°	1859.6	1869.0	1866.6	1858.5	1862.0
5°	1849.1	1860.8	1859.6	1857.3	1863.1
7.5°	1836.3	1849.1	1850.3	1850.3	1857.3
10°	1822.3	1835.1	1837.4	1833.9	1836.3
12.5°	1798.9	1814.1	1818.8	1818.8	1822.3
15°	1770.9	1788.4	1796.6	1798.9	1807.1
17.5°	1740.5	1759.2	1769.7	1775.5	1782.5
20°	1704.3	1724.1	1735.8	1742.8	1751.0
22.5°	1663.4	1685.6	1698.4	1705.4	1714.8
25°	1620.2	1642.4	1657.6	1668.1	1678.6
27.5°	1574.6	1595.6	1616.7	1629.5	1638.9
30°	1525.6	1547.8	1569.9	1586.3	1595.6
32.5°	1473.0	1496.4	1522.1	1539.6	1550.1
35°	1419.3	1441.5	1470.7	1491.7	1502.2
37.5°	1364.4	1387.7	1418.1	1440.3	1453.1
40°	1306.0	1330.5	1363.2	1387.7	1400.6
42.5°	1245.2	1268.6	1304.8	1332.8	1348.0
45°	1183.3	1207.8	1245.2	1274.4	1289.6
47.5°	1119.1	1142.4	1183.3	1217.2	1230.0
50°	1052.5	1074.7	1117.9	1154.1	1169.3
52.5°	984.7	1008.1	1051.3	1089.9	1106.2
55°	915.8	939.2	984.7	1024.4	1042.0
57.5°	845.7	869.1	915.8	956.7	977.7
60°	773.3	796.7	845.7	887.8	908.8
62.5°	698.5	723.1	773.3	816.5	838.7
65°	623.8	647.1	699.7	746.4	763.9
67.5°	549.0	572.4	623.8	670.5	691.5
70°	471.9	498.8	549.0	598.1	616.8
72.5°	391.3	421.7	471.9	523.3	542.0
75°	316.6	345.8	399.5	447.4	468.4
77.5°	243.0	274.5	324.7	373.8	394.8
80°	172.9	203.3	254.6	301.4	323.6
82.5°	109.8	136.7	188.1	230.1	246.5
85°	56.1	79.4	118.0	132.0	140.2
87.5°	16.4	28.0	42.1	52.6	58.4
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	17.63	19.29	18.00	19.61	19.92	18.37	20.03	18.73	20.34	20.66
	3H	19.40	20.91	19.78	21.23	21.59	20.45	21.95	20.82	22.28	22.64
	4H	20.02	21.44	20.42	21.79	22.16	21.31	22.73	21.71	23.08	23.46
	6H	20.43	21.75	20.84	22.11	22.50	22.06	23.38	22.47	23.74	24.13
	8H	20.53	21.79	20.96	22.18	22.58	22.35	23.61	22.78	24.00	24.40
	12H	20.58	21.79	21.01	22.17	22.60	22.55	23.75	22.98	24.14	24.56
4H	2H	18.40	19.82	18.80	20.17	20.54	18.97	20.39	19.37	20.74	21.12
	3H	20.39	21.59	20.80	21.99	22.38	21.29	22.48	21.70	22.88	23.28
	4H	21.14	22.22	21.57	22.63	23.07	22.31	23.39	22.74	23.80	24.24
	6H	21.66	22.61	22.12	23.05	23.51	23.21	24.16	23.66	24.60	25.05
	8H	21.81	22.70	22.27	23.14	23.60	23.58	24.47	24.04	24.91	25.37
	12H	21.89	22.69	22.37	23.16	23.63	23.83	24.63	24.31	25.11	25.58
8H	4H	21.58	22.47	22.04	22.91	23.38	22.60	23.49	23.06	23.93	24.40
	6H	22.25	22.99	22.74	23.47	23.95	23.66	24.40	24.15	24.89	25.36
	8H	22.45	23.12	22.96	23.62	24.11	24.13	24.80	24.64	25.30	25.79
	12H	22.59	23.18	23.10	23.67	24.23	24.48	25.07	24.99	25.56	26.12
12H	4H	21.66	22.46	22.14	22.94	23.41	22.63	23.43	23.11	23.90	24.37
	6H	22.37	23.04	22.88	23.54	24.03	23.71	24.38	24.22	24.88	25.37
	8H	22.65	23.24	23.15	23.73	24.28	24.25	24.84	24.75	25.33	25.89