

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: P1587781

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587781
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

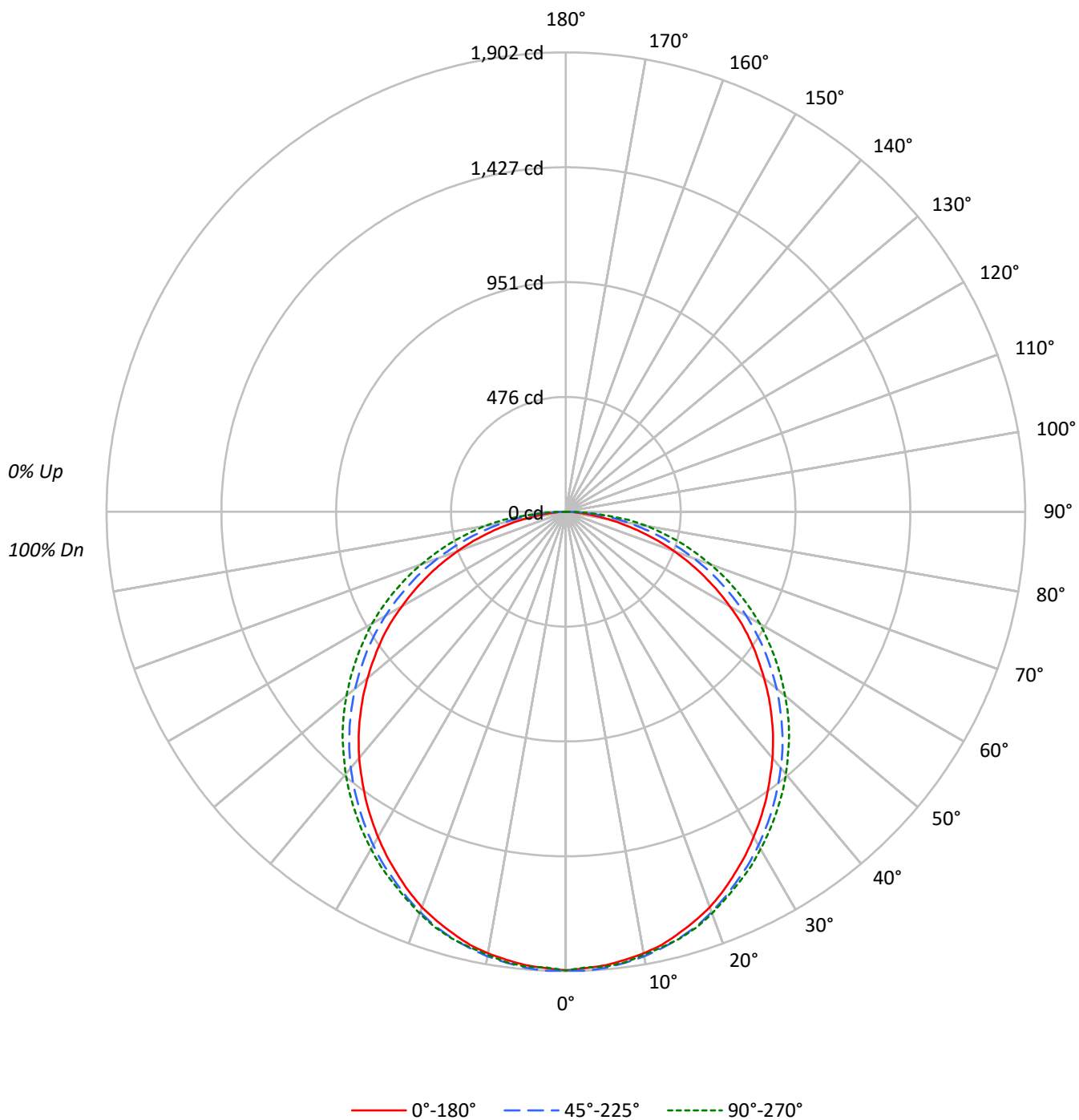
Lumens per Lamp: N/A
Luminaire Lumens: 5541.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5945	5945	5945
5°	5924	5957	5942
10°	5903	5944	5921
15°	5859	5920	5927
20°	5807	5877	5897
25°	5713	5814	5855
30°	5623	5767	5830
35°	5532	5711	5810
40°	5441	5661	5796
45°	5339	5609	5791
50°	5222	5547	5776
55°	5103	5487	5775
60°	4914	5405	5809
65°	4683	5301	5813
70°	4370	5154	5830
75°	3887	4966	5931
80°	3194	4759	6155
85°	2105	4466	5562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6302 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	3.2
10°-20°	514.1	9.3
20°-30°	774.9	14.0
30°-40°	933.1	16.8
40°-50°	974.9	17.6
50°-60°	895.6	16.2
60°-70°	705.3	12.7
70°-80°	432.4	7.8
80°-90°	131.1	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°	1468.5	26.5
0°-40°	2401.7	43.3
0°-60°	4272.2	77.1
0°-90°	5541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1885	1888	1895	1893	1890	179
15°	1807	1814	1826	1833	1828	510
25°	1654	1664	1683	1700	1695	762
35°	1447	1466	1494	1521	1520	905
45°	1206	1231	1267	1302	1308	930
55°	935	962	1005	1048	1058	834
65°	632	665	715	764	785	625
75°	321	359	410	460	490	342
85°	59	87	124	138	155	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.7	1898.7	1898.7	1898.7	1898.7
2.5°	1891.6	1896.3	1902.2	1892.8	1888.1
5°	1884.6	1888.1	1895.2	1892.8	1890.5
7.5°	1871.7	1874.1	1883.4	1883.4	1881.1
10°	1856.5	1861.2	1869.4	1868.2	1862.3
12.5°	1836.5	1840.0	1849.4	1849.4	1845.9
15°	1807.2	1814.2	1826.0	1833.0	1828.3
17.5°	1776.7	1783.7	1799.0	1806.0	1803.7
20°	1742.7	1748.6	1763.8	1774.4	1769.7
22.5°	1700.5	1707.5	1725.1	1736.8	1732.1
25°	1653.6	1664.1	1682.9	1700.5	1694.6
27.5°	1606.7	1618.4	1641.8	1659.4	1657.1
30°	1555.1	1570.3	1594.9	1617.2	1612.5
32.5°	1502.3	1519.9	1545.7	1569.1	1568.0
35°	1447.2	1465.9	1494.1	1521.1	1519.9
37.5°	1388.5	1410.8	1440.1	1469.5	1470.6
40°	1331.1	1352.2	1385.0	1416.7	1417.9
42.5°	1270.1	1292.4	1327.6	1360.4	1361.6
45°	1205.6	1231.4	1266.6	1301.8	1307.6
47.5°	1139.9	1166.9	1203.2	1240.8	1247.8
50°	1071.9	1100.0	1138.7	1178.6	1185.6
52.5°	1002.7	1032.0	1071.9	1111.8	1122.3
55°	934.7	961.7	1005.0	1048.4	1057.8
57.5°	863.1	887.8	934.7	980.4	992.1
60°	784.6	815.1	863.1	908.9	927.6
62.5°	708.3	741.2	790.4	836.2	857.3
65°	632.1	664.9	715.4	763.5	784.6
67.5°	554.7	588.7	642.7	688.4	711.9
70°	477.3	511.3	562.9	612.2	636.8
72.5°	399.9	436.3	486.7	537.1	561.7
75°	321.3	358.9	410.5	459.7	490.2
77.5°	247.4	283.8	335.4	385.8	411.6
80°	177.1	213.4	263.9	314.3	341.3
82.5°	112.6	146.6	195.8	238.1	262.7
85°	58.6	86.8	124.3	138.4	154.8
87.5°	17.6	34.0	48.1	53.9	66.8
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	17.71	19.37	18.07	19.68	20.00	18.45	20.12	18.82	20.43	20.74
	3H	19.47	20.98	19.85	21.30	21.66	20.55	22.06	20.93	22.38	22.74
	4H	20.09	21.52	20.49	21.86	22.24	21.43	22.86	21.83	23.20	23.58
	6H	20.51	21.83	20.92	22.19	22.58	22.20	23.52	22.61	23.88	24.27
	8H	20.61	21.88	21.04	22.26	22.66	22.51	23.77	22.94	24.16	24.56
	12H	20.66	21.87	21.09	22.26	22.68	22.72	23.94	23.15	24.32	24.74
4H	2H	18.48	19.90	18.87	20.25	20.62	19.06	20.48	19.45	20.83	21.20
	3H	20.47	21.67	20.88	22.07	22.46	21.39	22.58	21.79	22.98	23.38
	4H	21.22	22.31	21.65	22.72	23.16	22.42	23.51	22.85	23.92	24.35
	6H	21.76	22.71	22.21	23.15	23.61	23.35	24.30	23.80	24.74	25.20
	8H	21.91	22.80	22.37	23.24	23.71	23.73	24.63	24.19	25.07	25.53
	12H	21.99	22.80	22.47	23.27	23.74	24.01	24.81	24.49	25.29	25.76
8H	4H	21.68	22.57	22.14	23.01	23.47	22.72	23.61	23.18	24.05	24.52
	6H	22.35	23.10	22.85	23.59	24.06	23.80	24.55	24.30	25.03	25.51
	8H	22.57	23.24	23.08	23.75	24.23	24.29	24.96	24.80	25.47	25.95
	12H	22.72	23.31	23.23	23.80	24.36	24.67	25.26	25.17	25.75	26.31
12H	4H	21.76	22.56	22.24	23.04	23.51	22.75	23.55	23.23	24.03	24.49
	6H	22.48	23.15	22.99	23.66	24.14	23.86	24.53	24.36	25.03	25.52
	8H	22.77	23.37	23.28	23.85	24.41	24.41	25.00	24.92	25.49	26.05