

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: P1587779

Luminaire Tested: 22CZSP-SB-54HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587779
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

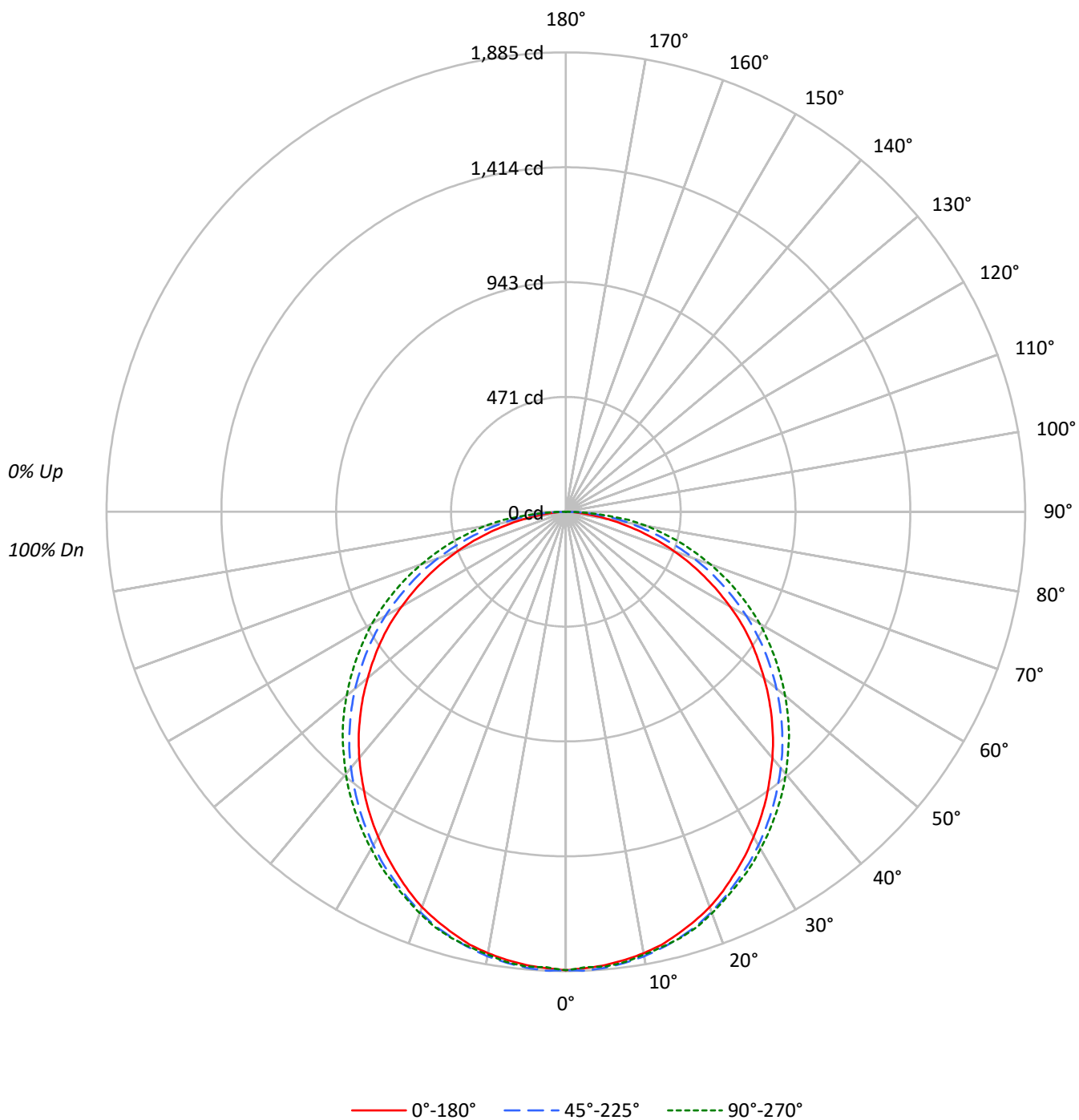
Lumens per Lamp: N/A
Luminaire Lumens: 5490.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5891	5891	5891
5°	5869	5902	5888
10°	5849	5889	5867
15°	5805	5865	5872
20°	5754	5824	5843
25°	5661	5761	5801
30°	5571	5714	5777
35°	5481	5659	5757
40°	5391	5609	5742
45°	5290	5557	5737
50°	5174	5496	5723
55°	5056	5436	5722
60°	4868	5356	5756
65°	4640	5252	5759
70°	4330	5106	5776
75°	3852	4920	5876
80°	3165	4714	6097
85°	2087	4426	5511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	3.2
10°-20°	509.4	9.3
20°-30°	767.7	14.0
30°-40°	924.5	16.8
40°-50°	965.9	17.6
50°-60°	887.4	16.2
60°-70°	698.8	12.7
70°-80°	428.4	7.8
80°-90°	129.9	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°	1455.0	26.5
0°-40°	2379.6	43.3
0°-60°	4232.9	77.1
0°-90°	5490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1867	1871	1878	1875	1873	177
15°	1791	1798	1809	1816	1812	505
25°	1638	1649	1667	1685	1679	755
35°	1434	1452	1480	1507	1506	897
45°	1194	1220	1255	1290	1296	921
55°	926	953	996	1039	1048	826
65°	626	659	709	756	777	619
75°	318	356	407	456	486	338
85°	58	86	123	137	153	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.2	1881.2	1881.2	1881.2	1881.2
2.5°	1874.2	1878.9	1884.7	1875.4	1870.7
5°	1867.3	1870.7	1877.7	1875.4	1873.1
7.5°	1854.5	1856.8	1866.1	1866.1	1863.8
10°	1839.4	1844.0	1852.2	1851.0	1845.2
12.5°	1819.6	1823.1	1832.4	1832.4	1828.9
15°	1790.6	1797.5	1809.2	1816.1	1811.5
17.5°	1760.4	1767.3	1782.4	1789.4	1787.1
20°	1726.7	1732.5	1747.6	1758.0	1753.4
22.5°	1684.8	1691.8	1709.2	1720.9	1716.2
25°	1638.4	1648.8	1667.4	1684.8	1679.0
27.5°	1591.9	1603.5	1626.7	1644.2	1641.8
30°	1540.8	1555.9	1580.3	1602.3	1597.7
32.5°	1488.5	1505.9	1531.5	1554.7	1553.5
35°	1433.9	1452.4	1480.3	1507.1	1505.9
37.5°	1375.8	1397.8	1426.9	1455.9	1457.1
40°	1318.8	1339.7	1372.3	1403.6	1404.8
42.5°	1258.4	1280.5	1315.3	1347.9	1349.0
45°	1194.5	1220.1	1254.9	1289.8	1295.6
47.5°	1129.4	1156.1	1192.2	1229.3	1236.3
50°	1062.0	1089.9	1128.3	1167.8	1174.7
52.5°	993.5	1022.5	1062.0	1101.5	1112.0
55°	926.1	952.8	995.8	1038.8	1048.1
57.5°	855.2	879.6	926.1	971.4	983.0
60°	777.3	807.6	855.2	900.5	919.1
62.5°	701.8	734.4	783.2	828.5	849.4
65°	626.3	658.8	708.8	756.4	777.3
67.5°	549.6	583.3	636.8	682.1	705.3
70°	472.9	506.6	557.7	606.5	630.9
72.5°	396.2	432.2	482.2	532.2	556.6
75°	318.4	355.6	406.7	455.5	485.7
77.5°	245.2	281.2	332.3	382.3	407.8
80°	175.5	211.5	261.4	311.4	338.1
82.5°	111.5	145.2	194.0	235.9	260.3
85°	58.1	86.0	123.2	137.1	153.4
87.5°	17.4	33.7	47.6	53.4	66.2
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	17.67	19.34	18.04	19.65	19.97	18.42	20.08	18.79	20.40	20.71
	3H	19.44	20.94	19.81	21.27	21.63	20.52	22.02	20.89	22.35	22.71
	4H	20.06	21.48	20.46	21.83	22.21	21.40	22.82	21.80	23.17	23.55
	6H	20.47	21.80	20.88	22.16	22.55	22.17	23.49	22.58	23.85	24.24
	8H	20.58	21.84	21.00	22.23	22.63	22.48	23.74	22.90	24.13	24.53
	12H	20.63	21.84	21.06	22.22	22.65	22.69	23.90	23.12	24.28	24.71
4H	2H	18.45	19.87	18.84	20.21	20.59	19.02	20.45	19.42	20.79	21.17
	3H	20.44	21.64	20.85	22.03	22.43	21.35	22.55	21.76	22.95	23.35
	4H	21.19	22.28	21.62	22.69	23.13	22.39	23.47	22.82	23.89	24.32
	6H	21.73	22.68	22.18	23.12	23.57	23.32	24.27	23.77	24.71	25.16
	8H	21.88	22.77	22.33	23.21	23.67	23.70	24.59	24.16	25.04	25.50
	12H	21.96	22.77	22.44	23.24	23.71	23.98	24.78	24.46	25.26	25.72
8H	4H	21.64	22.54	22.10	22.98	23.44	22.69	23.58	23.15	24.02	24.49
	6H	22.32	23.07	22.81	23.55	24.03	23.77	24.52	24.26	25.00	25.48
	8H	22.54	23.21	23.05	23.72	24.20	24.26	24.93	24.77	25.43	25.92
	12H	22.69	23.28	23.20	23.77	24.33	24.63	25.23	25.14	25.72	26.27
12H	4H	21.73	22.53	22.21	23.01	23.47	22.72	23.52	23.19	23.99	24.46
	6H	22.45	23.12	22.96	23.62	24.11	23.82	24.49	24.33	25.00	25.48
	8H	22.74	23.33	23.25	23.82	24.38	24.38	24.97	24.88	25.46	26.02