

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: P1587774

Luminaire Tested: 22CZSP-SB-54HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587774
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-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

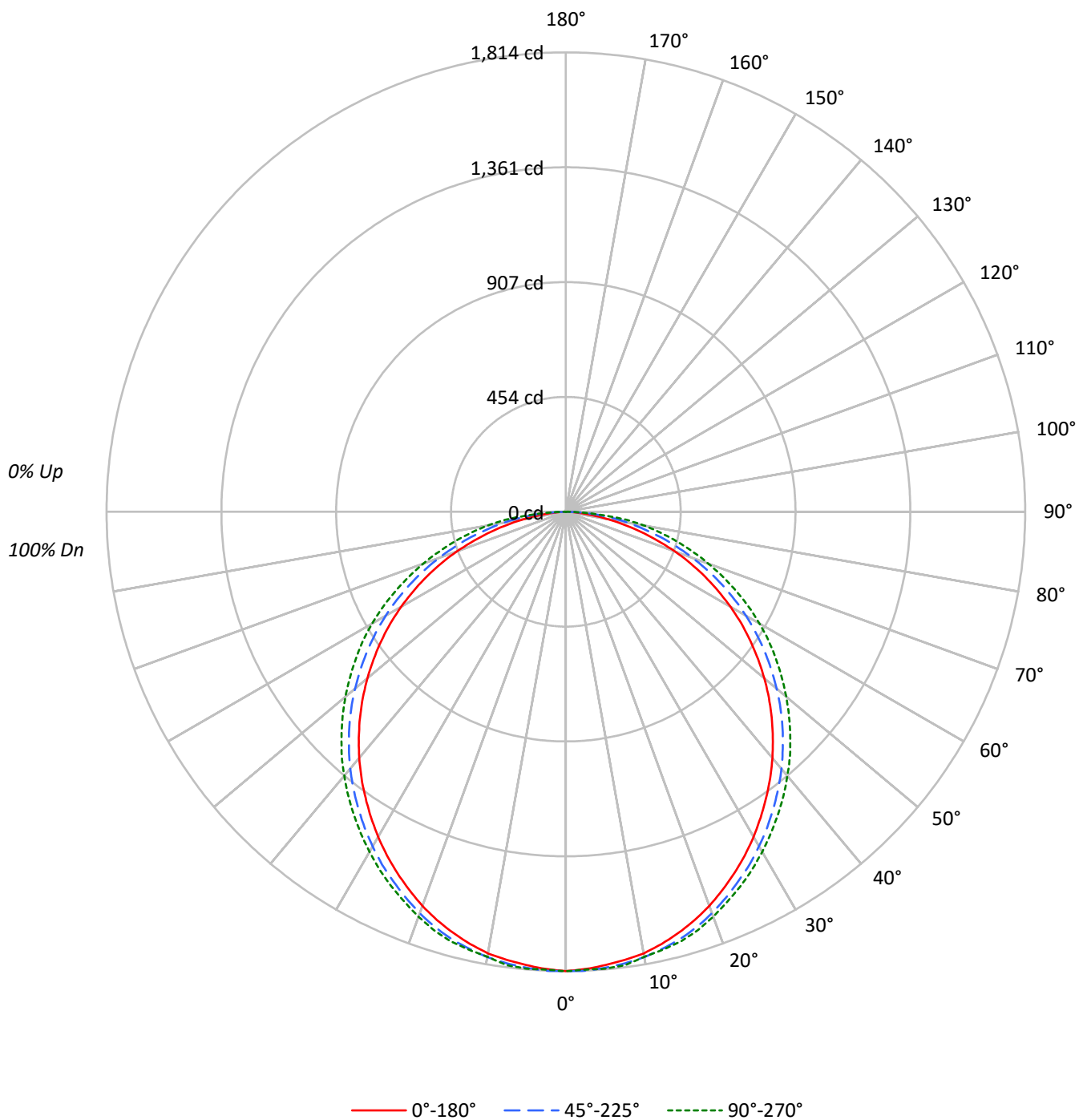
Lumens per Lamp: N/A
Luminaire Lumens: 5277.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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°	5680	5680	5680
5°	5648	5681	5691
10°	5631	5678	5674
15°	5579	5660	5693
20°	5519	5621	5671
25°	5440	5565	5636
30°	5361	5517	5607
35°	5273	5463	5581
40°	5188	5415	5564
45°	5093	5359	5550
50°	4983	5292	5535
55°	4859	5225	5528
60°	4706	5147	5531
65°	4492	5038	5501
70°	4199	4884	5488
75°	3722	4697	5507
80°	3029	4463	5671
85°	1958	4121	4893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.3
10°-20°	491.6	9.3
20°-30°	741.2	14.0
30°-40°	891.9	16.9
40°-50°	930.3	17.6
50°-60°	852.7	16.2
60°-70°	669.6	12.7
70°-80°	407.5	7.7
80°-90°	120.6	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°	1404.5	26.6
0°-40°	2296.3	43.5
0°-60°	4079.3	77.3
0°-90°	5277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1797	1808	1807	1805	1811	171
15°	1721	1738	1746	1748	1756	486
25°	1574	1596	1611	1621	1631	726
35°	1379	1401	1429	1450	1460	863
45°	1150	1174	1210	1238	1253	887
55°	890	913	957	996	1013	795
65°	606	629	680	725	742	600
75°	308	336	388	435	455	326
85°	54	77	115	128	136	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.0	1814.0	1814.0	1814.0	1814.0
2.5°	1807.2	1816.3	1814.0	1806.1	1809.5
5°	1797.0	1808.4	1807.2	1805.0	1810.6
7.5°	1784.5	1797.0	1798.2	1798.2	1805.0
10°	1770.9	1783.4	1785.7	1782.3	1784.5
12.5°	1748.2	1763.0	1767.5	1767.5	1770.9
15°	1721.0	1738.0	1745.9	1748.2	1756.2
17.5°	1691.4	1709.6	1719.8	1725.5	1732.3
20°	1656.3	1675.6	1686.9	1693.7	1701.7
22.5°	1616.5	1638.1	1650.6	1657.4	1666.5
25°	1574.5	1596.1	1610.8	1621.1	1631.3
27.5°	1530.2	1550.7	1571.1	1583.6	1592.7
30°	1482.6	1504.1	1525.7	1541.6	1550.7
32.5°	1431.5	1454.2	1479.2	1496.2	1506.4
35°	1379.3	1400.8	1429.2	1449.7	1459.9
37.5°	1325.9	1348.6	1378.1	1399.7	1412.2
40°	1269.2	1293.0	1324.8	1348.6	1361.1
42.5°	1210.1	1232.8	1268.0	1295.3	1310.0
45°	1150.0	1173.8	1210.1	1238.5	1253.3
47.5°	1087.5	1110.2	1150.0	1182.9	1195.4
50°	1022.8	1044.4	1086.4	1121.6	1136.3
52.5°	957.0	979.7	1021.7	1059.1	1075.0
55°	890.0	912.7	957.0	995.6	1012.6
57.5°	821.9	844.6	890.0	929.7	950.2
60°	751.5	774.2	821.9	862.8	883.2
62.5°	678.8	702.7	751.5	793.5	815.1
65°	606.2	628.9	680.0	725.4	742.4
67.5°	533.5	556.2	606.2	651.6	672.0
70°	458.6	484.7	533.5	581.2	599.4
72.5°	380.3	409.8	458.6	508.6	526.7
75°	307.6	336.0	388.2	434.8	455.2
77.5°	236.1	266.8	315.6	363.3	383.7
80°	168.0	197.5	247.5	292.9	314.5
82.5°	106.7	132.8	182.8	223.6	239.5
85°	54.5	77.2	114.7	128.3	136.2
87.5°	15.9	27.2	40.9	51.1	56.8
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	17.53	19.19	17.90	19.51	19.82	18.27	19.93	18.63	20.24	20.56
	3H	19.30	20.81	19.68	21.13	21.49	20.35	21.85	20.73	22.18	22.54
	4H	19.92	21.34	20.32	21.69	22.06	21.21	22.63	21.61	22.98	23.36
	6H	20.33	21.65	20.74	22.01	22.40	21.96	23.28	22.37	23.64	24.03
	8H	20.43	21.69	20.86	22.08	22.48	22.25	23.51	22.68	23.90	24.30
	12H	20.48	21.69	20.91	22.07	22.50	22.45	23.66	22.88	24.04	24.47
4H	2H	18.30	19.72	18.70	20.07	20.44	18.87	20.29	19.27	20.64	21.02
	3H	20.29	21.49	20.70	21.89	22.29	21.19	22.38	21.60	22.78	23.18
	4H	21.04	22.12	21.47	22.53	22.97	22.21	23.29	22.64	23.70	24.14
	6H	21.57	22.51	22.02	22.95	23.41	23.11	24.06	23.56	24.50	24.95
	8H	21.71	22.60	22.17	23.04	23.50	23.48	24.37	23.94	24.81	25.27
	12H	21.79	22.59	22.27	23.06	23.53	23.73	24.53	24.21	25.01	25.48
8H	4H	21.48	22.37	21.94	22.81	23.28	22.50	23.39	22.96	23.83	24.30
	6H	22.15	22.89	22.64	23.37	23.85	23.56	24.30	24.05	24.79	25.26
	8H	22.35	23.02	22.86	23.53	24.01	24.03	24.70	24.54	25.20	25.69
	12H	22.49	23.08	23.00	23.57	24.13	24.38	24.97	24.89	25.46	26.02
12H	4H	21.56	22.36	22.04	22.84	23.31	22.53	23.33	23.01	23.80	24.27
	6H	22.27	22.94	22.78	23.44	23.93	23.61	24.28	24.12	24.78	25.27
	8H	22.55	23.14	23.05	23.63	24.18	24.15	24.74	24.65	25.23	25.79