

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: P1587777

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587777
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

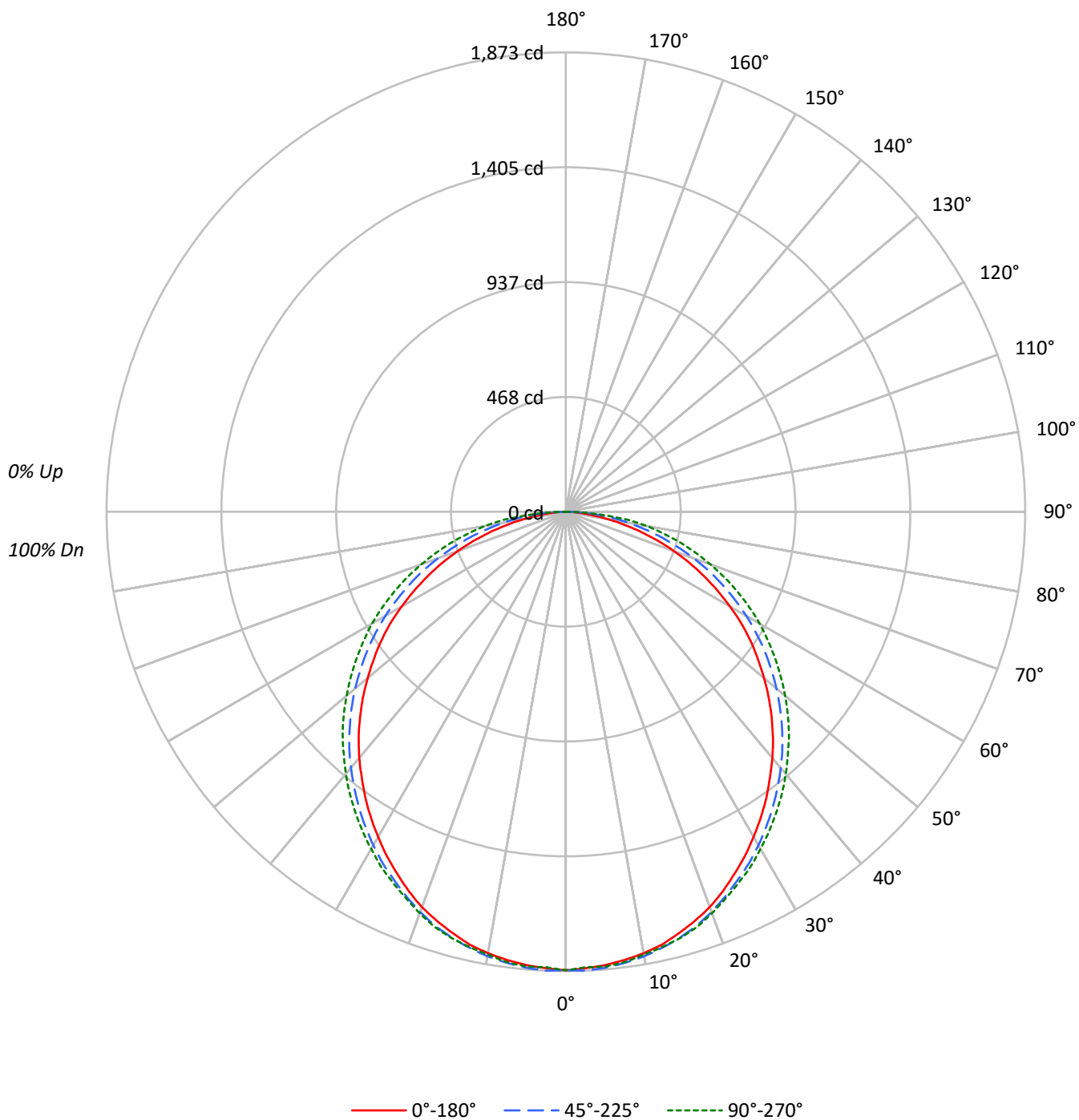
Lumens per Lamp: N/A
Luminaire Lumens: 5455.0 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5853	5853	5853
5°	5832	5864	5850
10°	5811	5851	5830
15°	5768	5827	5835
20°	5717	5786	5806
25°	5624	5724	5764
30°	5535	5677	5740
35°	5446	5623	5720
40°	5356	5574	5706
45°	5256	5522	5701
50°	5141	5461	5686
55°	5024	5401	5685
60°	4837	5321	5719
65°	4611	5218	5723
70°	4302	5074	5740
75°	3827	4889	5839
80°	3143	4685	6059
85°	2073	4398	5475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	3.2
10°-20°	506.1	9.3
20°-30°	762.8	14.0
30°-40°	918.6	16.8
40°-50°	959.7	17.6
50°-60°	881.7	16.2
60°-70°	694.4	12.7
70°-80°	425.7	7.8
80°-90°	129.1	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°	1445.8	26.5
0°-40°	2364.4	43.3
0°-60°	4205.9	77.1
0°-90°	5455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1855	1859	1866	1863	1861	176
15°	1779	1786	1798	1805	1800	502
25°	1628	1638	1657	1674	1668	750
35°	1425	1443	1471	1497	1496	891
45°	1187	1212	1247	1282	1287	915
55°	920	947	989	1032	1041	821
65°	622	655	704	752	772	615
75°	316	353	404	453	483	336
85°	58	85	122	136	152	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.2	1869.2	1869.2	1869.2	1869.2
2.5°	1862.3	1866.9	1872.7	1863.4	1858.8
5°	1855.4	1858.8	1865.7	1863.4	1861.1
7.5°	1842.7	1845.0	1854.2	1854.2	1851.9
10°	1827.6	1832.3	1840.3	1839.2	1833.4
12.5°	1808.0	1811.5	1820.7	1820.7	1817.3
15°	1779.2	1786.1	1797.6	1804.6	1799.9
17.5°	1749.1	1756.1	1771.1	1778.0	1775.7
20°	1715.7	1721.4	1736.4	1746.8	1742.2
22.5°	1674.1	1681.0	1698.3	1709.9	1705.3
25°	1627.9	1638.3	1656.8	1674.1	1668.3
27.5°	1581.7	1593.3	1616.4	1633.7	1631.4
30°	1530.9	1545.9	1570.2	1592.1	1587.5
32.5°	1479.0	1496.3	1521.7	1544.8	1543.6
35°	1424.7	1443.2	1470.9	1497.4	1496.3
37.5°	1367.0	1388.9	1417.8	1446.6	1447.8
40°	1310.4	1331.2	1363.5	1394.7	1395.8
42.5°	1250.4	1272.3	1306.9	1339.3	1340.4
45°	1186.9	1212.3	1246.9	1281.5	1287.3
47.5°	1122.2	1148.8	1184.6	1221.5	1228.4
50°	1055.3	1083.0	1121.1	1160.3	1167.2
52.5°	987.1	1016.0	1055.3	1094.5	1104.9
55°	920.2	946.7	989.4	1032.2	1041.4
57.5°	849.7	874.0	920.2	965.2	976.7
60°	772.4	802.4	849.7	894.8	913.2
62.5°	697.3	729.7	778.2	823.2	844.0
65°	622.3	654.6	704.3	751.6	772.4
67.5°	546.1	579.6	632.7	677.7	700.8
70°	469.9	503.4	554.2	602.7	626.9
72.5°	393.7	429.5	479.1	528.8	553.0
75°	316.3	353.3	404.1	452.6	482.6
77.5°	243.6	279.4	330.2	379.8	405.2
80°	174.3	210.1	259.8	309.4	336.0
82.5°	110.8	144.3	192.8	234.4	258.6
85°	57.7	85.4	122.4	136.2	152.4
87.5°	17.3	33.5	47.3	53.1	65.8
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	17.65	19.32	18.02	19.63	19.94	18.40	20.06	18.76	20.38	20.69
	3H	19.42	20.92	19.79	21.25	21.61	20.49	22.00	20.87	22.33	22.69
	4H	20.04	21.46	20.44	21.81	22.18	21.38	22.80	21.78	23.15	23.52
	6H	20.45	21.77	20.86	22.14	22.53	22.15	23.47	22.56	23.83	24.22
	8H	20.56	21.82	20.98	22.21	22.61	22.46	23.72	22.88	24.11	24.51
	12H	20.61	21.82	21.04	22.20	22.63	22.67	23.88	23.10	24.26	24.69
4H	2H	18.42	19.85	18.82	20.19	20.57	19.00	20.42	19.40	20.77	21.15
	3H	20.42	21.61	20.82	22.01	22.41	21.33	22.53	21.74	22.93	23.32
	4H	21.17	22.26	21.60	22.67	23.10	22.37	23.45	22.80	23.86	24.30
	6H	21.71	22.66	22.16	23.10	23.55	23.30	24.25	23.75	24.69	25.14
	8H	21.85	22.75	22.31	23.19	23.65	23.68	24.57	24.14	25.01	25.48
	12H	21.94	22.74	22.42	23.22	23.69	23.96	24.76	24.43	25.23	25.70
8H	4H	21.62	22.51	22.08	22.96	23.42	22.67	23.56	23.12	24.00	24.46
	6H	22.30	23.04	22.79	23.53	24.00	23.75	24.49	24.24	24.98	25.45
	8H	22.52	23.19	23.03	23.69	24.18	24.24	24.91	24.74	25.41	25.90
	12H	22.67	23.26	23.17	23.75	24.31	24.61	25.20	25.12	25.69	26.25
12H	4H	21.71	22.51	22.18	22.98	23.45	22.69	23.50	23.17	23.97	24.44
	6H	22.43	23.10	22.93	23.60	24.09	23.80	24.47	24.31	24.98	25.46
	8H	22.72	23.31	23.22	23.80	24.36	24.36	24.95	24.86	25.44	26.00