

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: P1587775

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587775
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

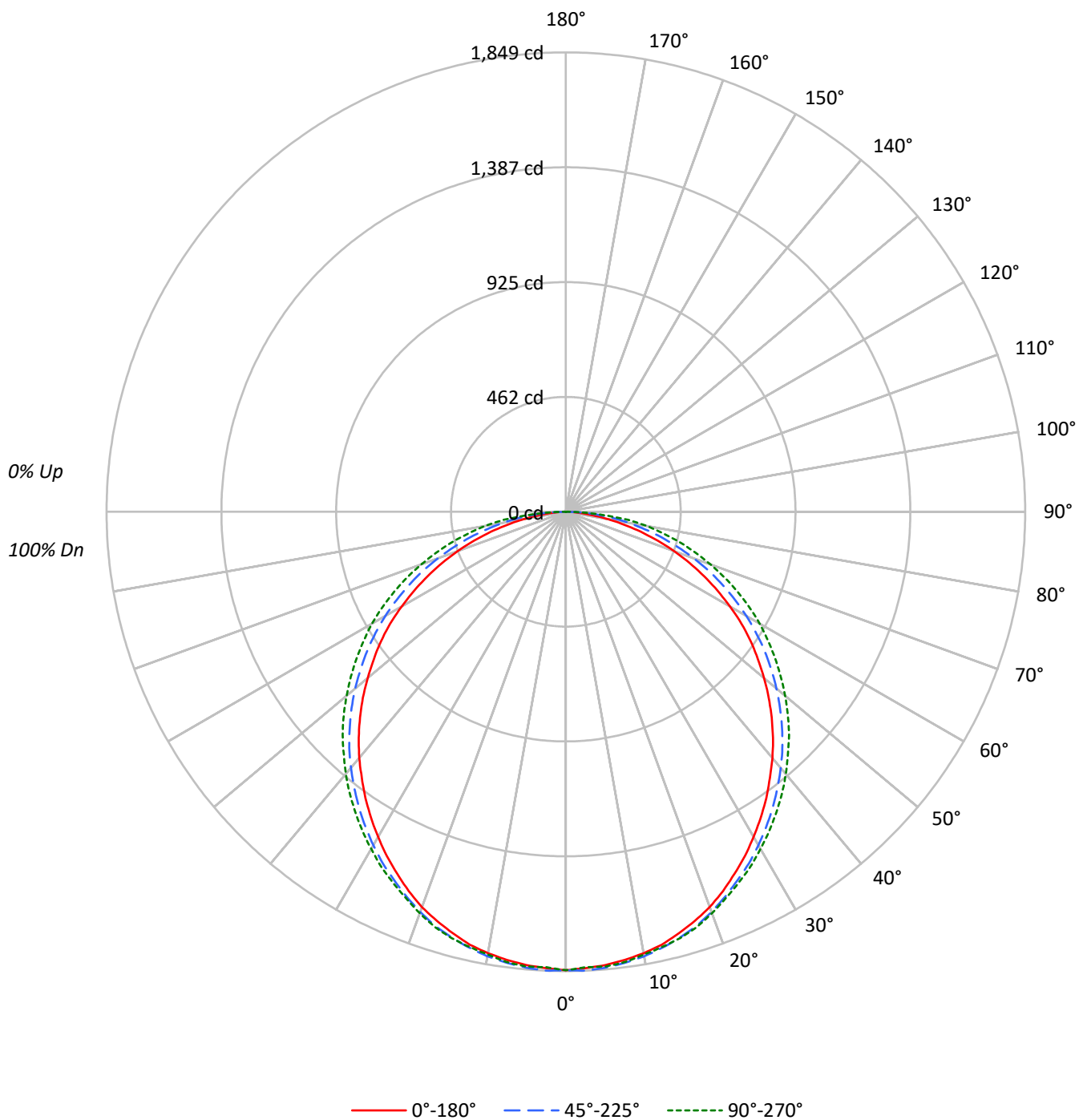
Lumens per Lamp: N/A
Luminaire Lumens: 5385.0 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5778	5778	5778
5°	5757	5789	5775
10°	5737	5776	5755
15°	5694	5753	5760
20°	5644	5712	5731
25°	5552	5651	5690
30°	5464	5604	5666
35°	5376	5550	5646
40°	5288	5502	5632
45°	5188	5451	5628
50°	5075	5391	5613
55°	4959	5332	5612
60°	4775	5253	5646
65°	4552	5151	5650
70°	4247	5009	5666
75°	3778	4826	5764
80°	3103	4624	5981
85°	2048	4340	5404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	3.2
10°-20°	499.6	9.3
20°-30°	753.0	14.0
30°-40°	906.9	16.8
40°-50°	947.4	17.6
50°-60°	870.4	16.2
60°-70°	685.4	12.7
70°-80°	420.2	7.8
80°-90°	127.4	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°	1427.2	26.5
0°-40°	2334.1	43.3
0°-60°	4151.9	77.1
0°-90°	5385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1832	1835	1842	1840	1837	174
15°	1756	1763	1775	1781	1777	496
25°	1607	1617	1636	1653	1647	741
35°	1406	1425	1452	1478	1477	880
45°	1172	1197	1231	1265	1271	904
55°	908	935	977	1019	1028	810
65°	614	646	695	742	762	607
75°	312	349	399	447	476	332
85°	57	84	121	134	150	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1838.4	1842.9	1848.6	1839.5	1835.0
5°	1831.5	1835.0	1841.8	1839.5	1837.2
7.5°	1819.0	1821.3	1830.4	1830.4	1828.1
10°	1804.2	1808.8	1816.7	1815.6	1809.9
12.5°	1784.8	1788.2	1797.4	1797.4	1793.9
15°	1756.3	1763.2	1774.6	1781.4	1776.8
17.5°	1726.7	1733.5	1748.3	1755.2	1752.9
20°	1693.6	1699.3	1714.2	1724.4	1719.9
22.5°	1652.6	1659.4	1676.5	1687.9	1683.4
25°	1607.0	1617.3	1635.5	1652.6	1646.9
27.5°	1561.4	1572.8	1595.6	1612.7	1610.4
30°	1511.3	1526.1	1550.0	1571.7	1567.1
32.5°	1460.0	1477.1	1502.2	1525.0	1523.8
35°	1406.4	1424.7	1452.0	1478.2	1477.1
37.5°	1349.4	1371.1	1399.6	1428.1	1429.2
40°	1293.6	1314.1	1346.0	1376.8	1377.9
42.5°	1234.3	1256.0	1290.2	1322.1	1323.2
45°	1171.6	1196.7	1230.9	1265.1	1270.8
47.5°	1107.8	1134.0	1169.4	1205.8	1212.7
50°	1041.7	1069.1	1106.7	1145.4	1152.3
52.5°	974.5	1003.0	1041.7	1080.5	1090.7
55°	908.4	934.6	976.7	1018.9	1028.0
57.5°	838.8	862.8	908.4	952.8	964.2
60°	762.5	792.1	838.8	883.3	901.5
62.5°	688.4	720.3	768.2	812.6	833.1
65°	614.3	646.2	695.2	742.0	762.5
67.5°	539.1	572.1	624.6	669.0	691.8
70°	463.9	496.9	547.1	594.9	618.9
72.5°	388.6	424.0	473.0	522.0	545.9
75°	312.3	348.8	398.9	446.8	476.4
77.5°	240.5	275.8	326.0	375.0	400.0
80°	172.1	207.4	256.4	305.4	331.7
82.5°	109.4	142.5	190.3	231.4	255.3
85°	57.0	84.3	120.8	134.5	150.4
87.5°	17.1	33.1	46.7	52.4	65.0
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	17.61	19.27	17.97	19.58	19.90	18.35	20.02	18.72	20.33	20.64
	3H	19.37	20.88	19.75	21.20	21.56	20.45	21.96	20.83	22.28	22.64
	4H	19.99	21.42	20.39	21.76	22.14	21.33	22.76	21.73	23.10	23.48
	6H	20.41	21.73	20.82	22.09	22.48	22.10	23.42	22.51	23.79	24.18
	8H	20.51	21.78	20.94	22.16	22.56	22.41	23.68	22.84	24.06	24.46
	12H	20.57	21.78	20.99	22.16	22.59	22.63	23.84	23.05	24.22	24.65
4H	2H	18.38	19.80	18.78	20.15	20.52	18.96	20.38	19.36	20.73	21.10
	3H	20.37	21.57	20.78	21.97	22.37	21.29	22.48	21.69	22.88	23.28
	4H	21.13	22.21	21.56	22.62	23.06	22.32	23.41	22.75	23.82	24.25
	6H	21.66	22.61	22.11	23.05	23.51	23.25	24.20	23.70	24.64	25.10
	8H	21.81	22.70	22.27	23.14	23.61	23.63	24.53	24.09	24.97	25.43
	12H	21.89	22.70	22.37	23.17	23.64	23.91	24.71	24.39	25.19	25.66
8H	4H	21.58	22.47	22.04	22.91	23.37	22.62	23.51	23.08	23.95	24.42
	6H	22.25	23.00	22.75	23.49	23.96	23.70	24.45	24.20	24.94	25.41
	8H	22.48	23.14	22.98	23.65	24.13	24.19	24.86	24.70	25.37	25.85
	12H	22.62	23.21	23.13	23.70	24.26	24.57	25.16	25.07	25.65	26.21
12H	4H	21.66	22.46	22.14	22.94	23.41	22.65	23.45	23.13	23.93	24.39
	6H	22.38	23.05	22.89	23.56	24.04	23.76	24.43	24.26	24.93	25.42
	8H	22.67	23.27	23.18	23.76	24.31	24.31	24.90	24.82	25.39	25.95