

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: P1587735

Luminaire Tested: 22CZSP-SB-49HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587735
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-49HE-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

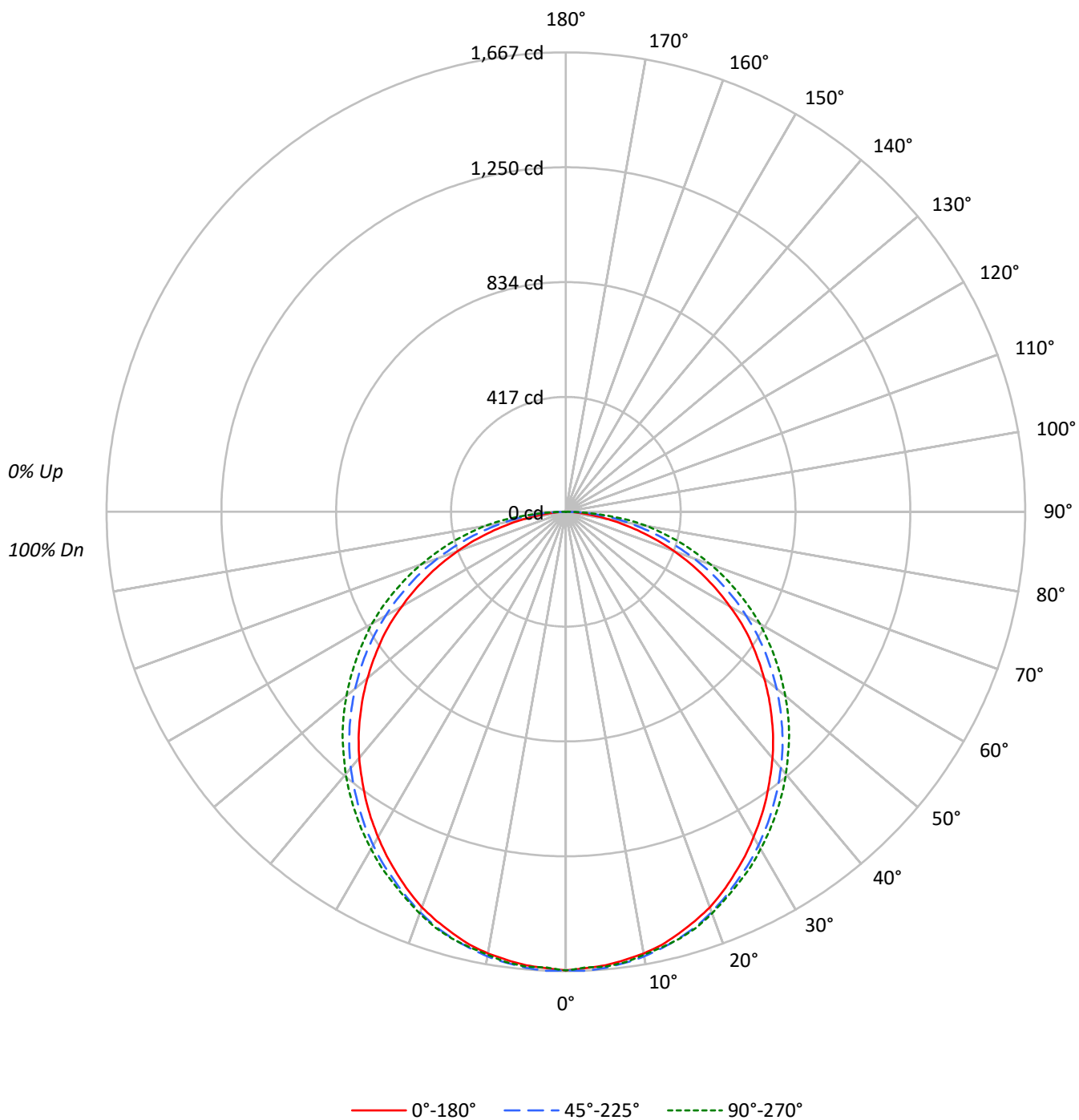
Lumens per Lamp: N/A
Luminaire Lumens: 4857.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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°	5211	5211	5211
5°	5193	5222	5209
10°	5174	5210	5190
15°	5135	5189	5195
20°	5090	5152	5169
25°	5008	5097	5132
30°	4929	5055	5111
35°	4849	5006	5093
40°	4769	4962	5080
45°	4680	4916	5076
50°	4577	4863	5063
55°	4473	4810	5062
60°	4307	4738	5092
65°	4106	4646	5095
70°	3831	4517	5111
75°	3408	4353	5199
80°	2799	4171	5394
85°	1847	3916	4875

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	3.2
10°-20°	450.6	9.3
20°-30°	679.2	14.0
30°-40°	817.9	16.8
40°-50°	854.5	17.6
50°-60°	785.1	16.2
60°-70°	618.2	12.7
70°-80°	379.0	7.8
80°-90°	114.9	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°	1287.3	26.5
0°-40°	2105.2	43.3
0°-60°	3744.8	77.1
0°-90°	4857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1664	1664	1664	1664	1664	
5°	1652	1655	1661	1659	1657	157
15°	1584	1590	1601	1607	1603	447
25°	1450	1459	1475	1491	1485	668
35°	1268	1285	1310	1333	1332	793
45°	1057	1079	1110	1141	1146	815
55°	819	843	881	919	927	731
65°	554	583	627	669	688	548
75°	282	315	360	403	430	299
85°	51	76	109	121	136	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1664.3	1664.3	1664.3	1664.3	1664.3
2.5°	1658.1	1662.2	1667.4	1659.2	1655.0
5°	1652.0	1655.0	1661.2	1659.2	1657.1
7.5°	1640.7	1642.7	1650.9	1650.9	1648.9
10°	1627.3	1631.4	1638.6	1637.6	1632.4
12.5°	1609.8	1612.9	1621.1	1621.1	1618.0
15°	1584.1	1590.3	1600.6	1606.7	1602.6
17.5°	1557.4	1563.6	1576.9	1583.1	1581.0
20°	1527.6	1532.7	1546.1	1555.3	1551.2
22.5°	1490.6	1496.7	1512.2	1522.4	1518.3
25°	1449.5	1458.7	1475.2	1490.6	1485.4
27.5°	1408.3	1418.6	1439.2	1454.6	1452.5
30°	1363.1	1376.5	1398.1	1417.6	1413.5
32.5°	1316.8	1332.3	1354.9	1375.4	1374.4
35°	1268.5	1285.0	1309.6	1333.3	1332.3
37.5°	1217.1	1236.7	1262.4	1288.1	1289.1
40°	1166.8	1185.3	1214.0	1241.8	1242.8
42.5°	1113.3	1132.8	1163.7	1192.5	1193.5
45°	1056.8	1079.4	1110.2	1141.1	1146.2
47.5°	999.2	1022.8	1054.7	1087.6	1093.8
50°	939.6	964.2	998.2	1033.1	1039.3
52.5°	878.9	904.6	939.6	974.5	983.8
55°	819.3	842.9	881.0	919.0	927.2
57.5°	756.6	778.2	819.3	859.4	869.7
60°	687.7	714.4	756.6	796.7	813.1
62.5°	620.9	649.7	692.9	732.9	751.5
65°	554.1	582.9	627.1	669.2	687.7
67.5°	486.2	516.0	563.3	603.4	624.0
70°	418.4	448.2	493.4	536.6	558.2
72.5°	350.5	382.4	426.6	470.8	492.4
75°	281.7	314.6	359.8	403.0	429.7
77.5°	216.9	248.8	294.0	338.2	360.8
80°	155.2	187.1	231.3	275.5	299.1
82.5°	98.7	128.5	171.7	208.7	230.3
85°	51.4	76.1	109.0	121.3	135.7
87.5°	15.4	29.8	42.1	47.3	58.6
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	17.25	18.91	17.61	19.23	19.54	18.00	19.66	18.36	19.97	20.29
	3H	19.01	20.52	19.39	20.85	21.20	20.09	21.60	20.47	21.92	22.28
	4H	19.64	21.06	20.03	21.41	21.78	20.98	22.40	21.37	22.75	23.12
	6H	20.05	21.37	20.46	21.73	22.12	21.74	23.06	22.15	23.43	23.82
	8H	20.15	21.42	20.58	21.81	22.20	22.05	23.32	22.48	23.71	24.10
	12H	20.21	21.42	20.64	21.80	22.23	22.27	23.48	22.70	23.86	24.29
4H	2H	18.02	19.44	18.42	19.79	20.16	18.60	20.02	19.00	20.37	20.74
	3H	20.01	21.21	20.42	21.61	22.01	20.93	22.13	21.34	22.52	22.92
	4H	20.77	21.85	21.20	22.27	22.70	21.96	23.05	22.39	23.46	23.90
	6H	21.30	22.26	21.76	22.69	23.15	22.89	23.85	23.35	24.28	24.74
	8H	21.45	22.34	21.91	22.78	23.25	23.28	24.17	23.74	24.61	25.07
	12H	21.54	22.34	22.02	22.81	23.28	23.55	24.36	24.03	24.83	25.30
8H	4H	21.22	22.11	21.68	22.55	23.02	22.26	23.15	22.72	23.60	24.06
	6H	21.90	22.64	22.39	23.13	23.60	23.35	24.09	23.84	24.58	25.05
	8H	22.12	22.79	22.62	23.29	23.78	23.83	24.50	24.34	25.01	25.49
	12H	22.26	22.86	22.77	23.35	23.90	24.21	24.80	24.71	25.29	25.85
12H	4H	21.30	22.11	21.78	22.58	23.05	22.29	23.09	22.77	23.57	24.04
	6H	22.02	22.69	22.53	23.20	23.68	23.40	24.07	23.91	24.57	25.06
	8H	22.32	22.91	22.82	23.40	23.96	23.95	24.54	24.46	25.03	25.59