

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: P1587740

Luminaire Tested: 22CZSP-SB-49HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587740
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-49HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

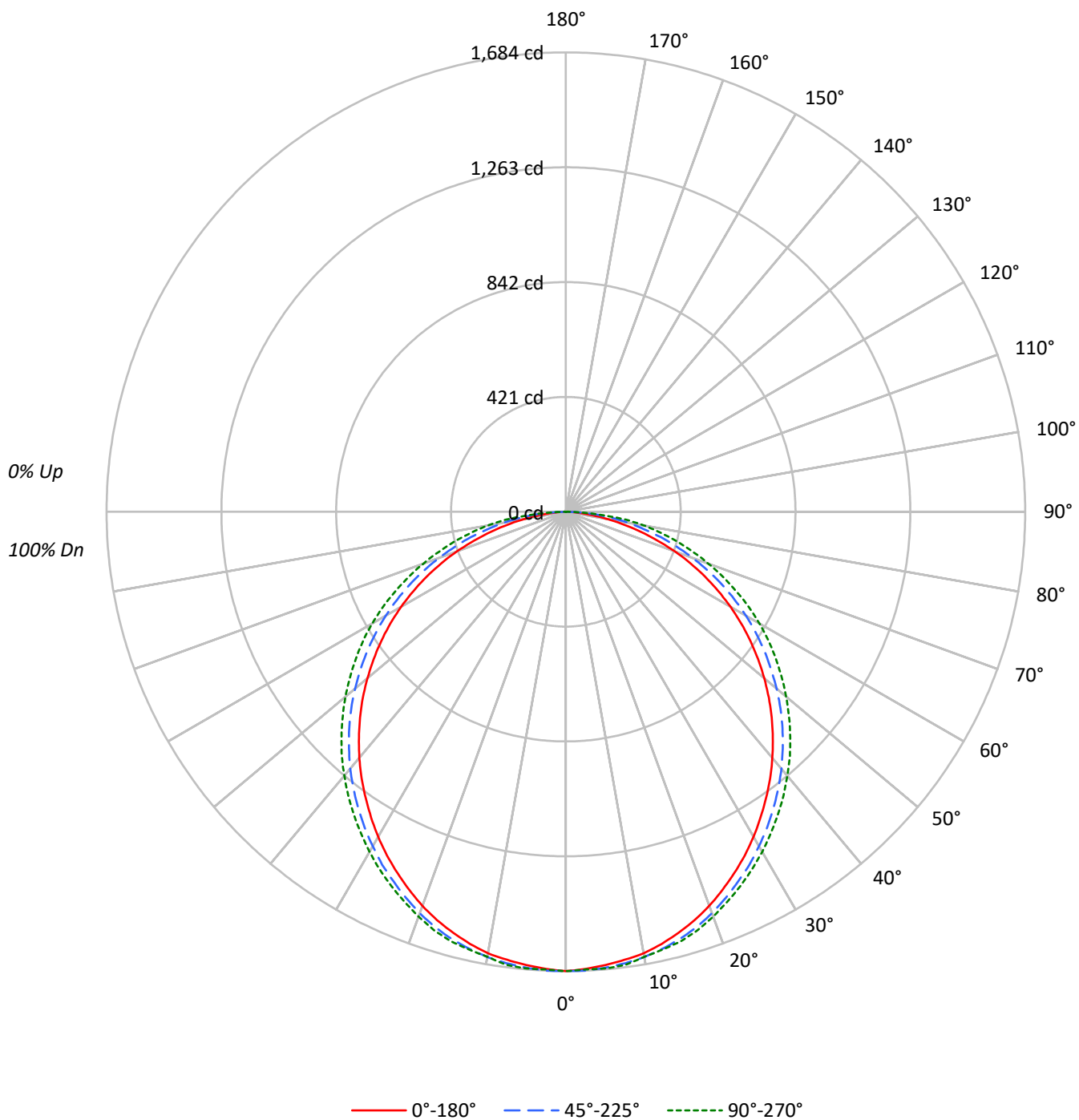
Lumens per Lamp: N/A
Luminaire Lumens: 4898.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			
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°	5273	5273	5273
5°	5243	5273	5283
10°	5226	5270	5267
15°	5178	5253	5284
20°	5123	5218	5263
25°	5049	5166	5231
30°	4976	5120	5204
35°	4894	5071	5180
40°	4815	5026	5164
45°	4727	4974	5152
50°	4625	4912	5138
55°	4510	4849	5131
60°	4368	4778	5134
65°	4169	4676	5106
70°	3897	4534	5093
75°	3454	4360	5112
80°	2811	4142	5264
85°	1818	3823	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5333 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.3
10°-20°	456.3	9.3
20°-30°	688.0	14.0
30°-40°	827.8	16.9
40°-50°	863.5	17.6
50°-60°	791.5	16.2
60°-70°	621.5	12.7
70°-80°	378.3	7.7
80°-90°	111.9	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°	1303.6	26.6
0°-40°	2131.4	43.5
0°-60°	3786.3	77.3
0°-90°	4898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1668	1678	1677	1675	1681	158
15°	1597	1613	1620	1623	1630	451
25°	1461	1482	1495	1505	1514	673
35°	1280	1300	1327	1346	1355	801
45°	1067	1090	1123	1150	1163	823
55°	826	847	888	924	940	738
65°	563	584	631	673	689	557
75°	286	312	360	404	422	303
85°	51	72	106	119	126	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1677.4	1685.9	1683.8	1676.4	1679.5
5°	1668.0	1678.5	1677.4	1675.3	1680.6
7.5°	1656.4	1668.0	1669.0	1669.0	1675.3
10°	1643.7	1655.3	1657.4	1654.3	1656.4
12.5°	1622.6	1636.3	1640.6	1640.6	1643.7
15°	1597.4	1613.2	1620.5	1622.6	1630.0
17.5°	1570.0	1586.8	1596.3	1601.6	1607.9
20°	1537.3	1555.2	1565.8	1572.1	1579.4
22.5°	1500.4	1520.4	1532.0	1538.4	1546.8
25°	1461.4	1481.5	1495.2	1504.6	1514.1
27.5°	1420.3	1439.3	1458.3	1469.9	1478.3
30°	1376.1	1396.1	1416.1	1430.9	1439.3
32.5°	1328.7	1349.7	1372.9	1388.7	1398.2
35°	1280.2	1300.2	1326.6	1345.5	1355.0
37.5°	1230.7	1251.8	1279.2	1299.2	1310.8
40°	1178.0	1200.1	1229.6	1251.8	1263.3
42.5°	1123.2	1144.3	1176.9	1202.2	1215.9
45°	1067.4	1089.5	1123.2	1149.6	1163.3
47.5°	1009.4	1030.5	1067.4	1097.9	1109.5
50°	949.4	969.4	1008.4	1041.0	1054.7
52.5°	888.2	909.3	948.3	983.1	997.8
55°	826.1	847.1	888.2	924.1	939.9
57.5°	762.9	783.9	826.1	863.0	881.9
60°	697.5	718.6	762.9	800.8	819.8
62.5°	630.1	652.2	697.5	736.5	756.5
65°	562.7	583.7	631.1	673.3	689.1
67.5°	495.2	516.3	562.7	604.8	623.8
70°	425.7	449.9	495.2	539.5	556.3
72.5°	353.0	380.4	425.7	472.0	488.9
75°	285.5	311.9	360.4	403.6	422.5
77.5°	219.2	247.6	292.9	337.2	356.1
80°	155.9	183.3	229.7	271.8	291.9
82.5°	99.0	123.3	169.6	207.6	222.3
85°	50.6	71.6	106.4	119.1	126.4
87.5°	14.8	25.3	37.9	47.4	52.7
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	17.28	18.94	17.64	19.25	19.56	18.01	19.67	18.38	19.99	20.30
	3H	19.04	20.55	19.42	20.87	21.23	20.09	21.60	20.47	21.92	22.28
	4H	19.66	21.08	20.06	21.43	21.80	20.96	22.38	21.35	22.72	23.10
	6H	20.07	21.39	20.48	21.75	22.14	21.70	23.02	22.11	23.38	23.77
	8H	20.17	21.43	20.60	21.82	22.22	21.99	23.25	22.42	23.64	24.04
	12H	20.22	21.43	20.65	21.81	22.24	22.19	23.40	22.62	23.78	24.21
4H	2H	18.04	19.46	18.44	19.81	20.19	18.62	20.04	19.01	20.38	20.76
	3H	20.03	21.23	20.44	21.63	22.03	20.93	22.12	21.34	22.52	22.92
	4H	20.78	21.86	21.21	22.27	22.71	21.95	23.03	22.38	23.44	23.88
	6H	21.31	22.26	21.76	22.70	23.15	22.85	23.80	23.31	24.24	24.70
	8H	21.45	22.34	21.91	22.78	23.24	23.22	24.11	23.68	24.55	25.01
	12H	21.53	22.33	22.01	22.80	23.27	23.47	24.27	23.95	24.75	25.22
8H	4H	21.22	22.11	21.68	22.55	23.02	22.24	23.13	22.70	23.58	24.04
	6H	21.89	22.63	22.38	23.11	23.59	23.30	24.04	23.79	24.53	25.00
	8H	22.10	22.76	22.60	23.27	23.75	23.77	24.44	24.28	24.94	25.43
	12H	22.23	22.82	22.74	23.31	23.87	24.13	24.72	24.63	25.20	25.76
12H	4H	21.30	22.10	21.78	22.58	23.05	22.27	23.07	22.75	23.55	24.01
	6H	22.01	22.68	22.52	23.18	23.67	23.35	24.02	23.86	24.53	25.01
	8H	22.29	22.88	22.79	23.37	23.93	23.89	24.48	24.40	24.97	25.53