

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: P1587741

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587741
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

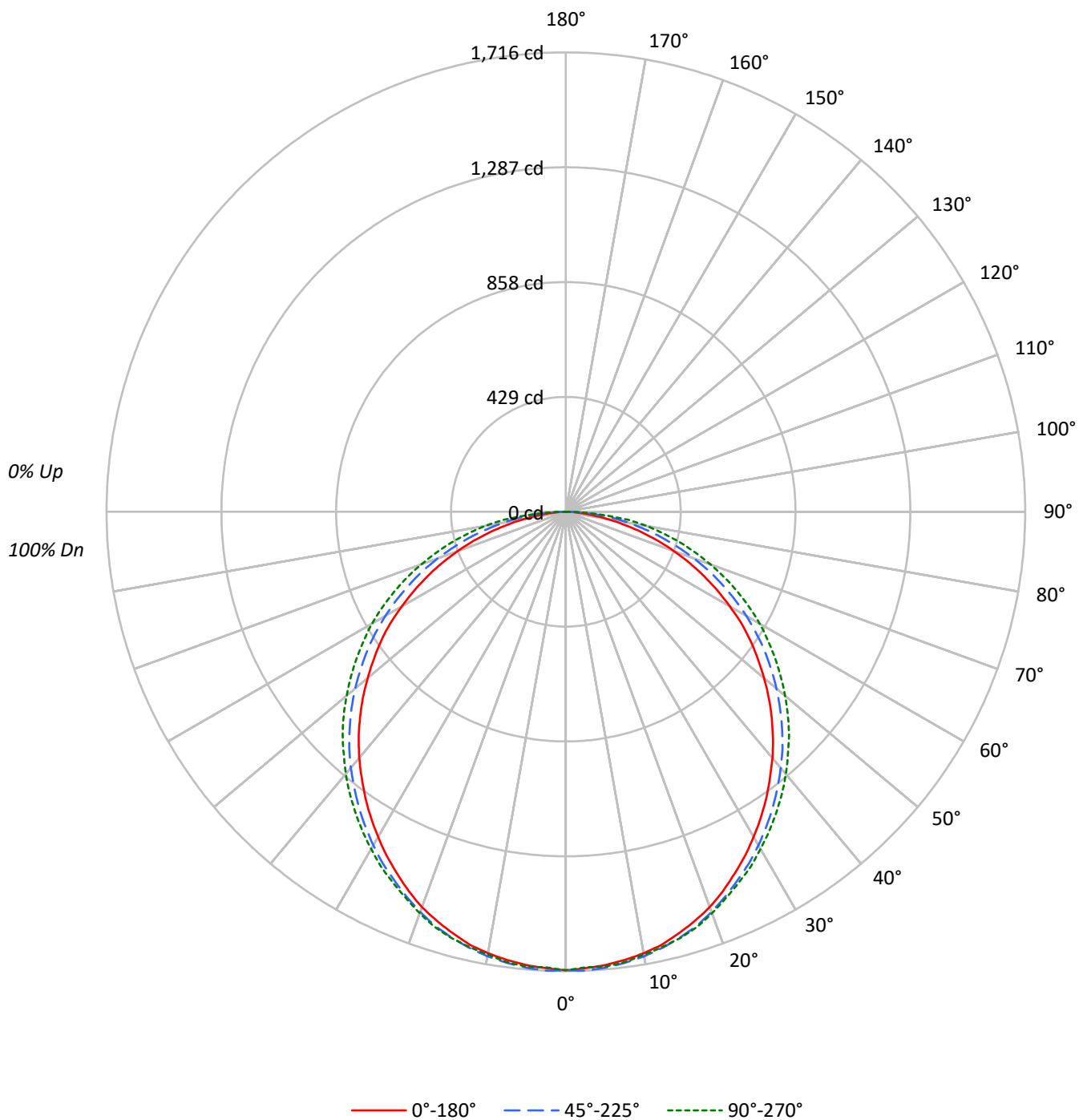
Lumens per Lamp: N/A
Luminaire Lumens: 4998.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1587741

CATALOG NUMBER: 22CZSP-SB-49HE-L850

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°	5363	5363	5363
5°	5343	5373	5360
10°	5324	5361	5341
15°	5284	5339	5346
20°	5238	5302	5319
25°	5153	5245	5281
30°	5072	5202	5259
35°	4990	5152	5240
40°	4908	5107	5228
45°	4815	5059	5223
50°	4710	5003	5210
55°	4603	4949	5209
60°	4432	4876	5240
65°	4225	4781	5244
70°	3941	4649	5259
75°	3506	4479	5350
80°	2880	4292	5550
85°	1901	4028	5016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5686 cd/sqm

TEST NUMBER: P1587741

CATALOG NUMBER: 22CZSP-SB-49HE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	3.2
10°-20°	463.7	9.3
20°-30°	698.9	14.0
30°-40°	841.7	16.8
40°-50°	879.3	17.6
50°-60°	807.9	16.2
60°-70°	636.2	12.7
70°-80°	390.0	7.8
80°-90°	118.3	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°	1324.6	26.5
0°-40°	2166.3	43.3
0°-60°	3853.5	77.1
0°-90°	4998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1700	1703	1709	1707	1705	161
15°	1630	1636	1647	1653	1649	460
25°	1492	1501	1518	1534	1529	688
35°	1305	1322	1348	1372	1371	816
45°	1087	1111	1142	1174	1180	839
55°	843	867	907	946	954	752
65°	570	600	645	689	708	564
75°	290	324	370	415	442	308
85°	53	78	112	125	140	68
90°	0	0	0	0	0	

TEST NUMBER: P1587741

CATALOG NUMBER: 22CZSP-SB-49HE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1706.3	1710.5	1715.8	1707.3	1703.1
5°	1699.9	1703.1	1709.4	1707.3	1705.2
7.5°	1688.3	1690.4	1698.9	1698.9	1696.7
10°	1674.5	1678.8	1686.2	1685.1	1679.8
12.5°	1656.5	1659.7	1668.2	1668.2	1665.0
15°	1630.1	1636.5	1647.0	1653.4	1649.1
17.5°	1602.6	1608.9	1622.7	1629.0	1626.9
20°	1571.9	1577.2	1591.0	1600.5	1596.3
22.5°	1533.8	1540.2	1556.1	1566.6	1562.4
25°	1491.5	1501.1	1518.0	1533.8	1528.6
27.5°	1449.2	1459.8	1481.0	1496.8	1494.7
30°	1402.7	1416.4	1438.6	1458.7	1454.5
32.5°	1355.1	1370.9	1394.2	1415.4	1414.3
35°	1305.4	1322.3	1347.7	1372.0	1370.9
37.5°	1252.5	1272.6	1299.0	1325.5	1326.5
40°	1200.6	1219.7	1249.3	1277.8	1278.9
42.5°	1145.6	1165.7	1197.5	1227.1	1228.1
45°	1087.4	1110.7	1142.4	1174.2	1179.5
47.5°	1028.2	1052.5	1085.3	1119.2	1125.5
50°	966.8	992.2	1027.1	1063.1	1069.5
52.5°	904.4	930.9	966.8	1002.8	1012.3
55°	843.1	867.4	906.6	945.7	954.2
57.5°	778.6	800.8	843.1	884.3	894.9
60°	707.7	735.2	778.6	819.8	836.7
62.5°	638.9	668.5	713.0	754.2	773.3
65°	570.2	599.8	645.3	688.6	707.7
67.5°	500.4	531.0	579.7	620.9	642.1
70°	430.5	461.2	507.8	552.2	574.4
72.5°	360.7	393.5	439.0	484.5	506.7
75°	289.8	323.7	370.2	414.7	442.2
77.5°	223.2	256.0	302.5	348.0	371.3
80°	159.7	192.5	238.0	283.5	307.8
82.5°	101.6	132.2	176.7	214.7	237.0
85°	52.9	78.3	112.1	124.8	139.6
87.5°	15.9	30.7	43.4	48.7	60.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587741

CATALOG NUMBER: 22CZSP-SB-49HE-L850

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	17.35	19.01	17.71	19.33	19.64	18.09	19.76	18.46	20.07	20.39
	3H	19.11	20.62	19.49	20.94	21.30	20.19	21.70	20.57	22.02	22.38
	4H	19.74	21.16	20.13	21.51	21.88	21.07	22.50	21.47	22.84	23.22
	6H	20.15	21.47	20.56	21.83	22.22	21.84	23.16	22.25	23.53	23.92
	8H	20.25	21.52	20.68	21.91	22.30	22.15	23.42	22.58	23.80	24.20
	12H	20.31	21.52	20.73	21.90	22.33	22.37	23.58	22.79	23.96	24.39
4H	2H	18.12	19.54	18.52	19.89	20.26	18.70	20.12	19.10	20.47	20.84
	3H	20.11	21.31	20.52	21.71	22.11	21.03	22.23	21.44	22.62	23.02
	4H	20.87	21.95	21.30	22.36	22.80	22.06	23.15	22.49	23.56	24.00
	6H	21.40	22.35	21.85	22.79	23.25	22.99	23.94	23.44	24.38	24.84
	8H	21.55	22.44	22.01	22.88	23.35	23.38	24.27	23.83	24.71	25.17
	12H	21.64	22.44	22.11	22.91	23.38	23.65	24.46	24.13	24.93	25.40
8H	4H	21.32	22.21	21.78	22.65	23.12	22.36	23.25	22.82	23.70	24.16
	6H	22.00	22.74	22.49	23.23	23.70	23.45	24.19	23.94	24.68	25.15
	8H	22.22	22.88	22.72	23.39	23.87	23.93	24.60	24.44	25.11	25.59
	12H	22.36	22.96	22.87	23.45	24.00	24.31	24.90	24.81	25.39	25.95
12H	4H	21.40	22.21	21.88	22.68	23.15	22.39	23.19	22.87	23.67	24.14
	6H	22.12	22.79	22.63	23.30	23.78	23.50	24.17	24.00	24.67	25.16
	8H	22.41	23.01	22.92	23.50	24.05	24.05	24.64	24.56	25.13	25.69