

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: P1587808

Luminaire Tested: 22CZSP-SB-57HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587808
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-57HE-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

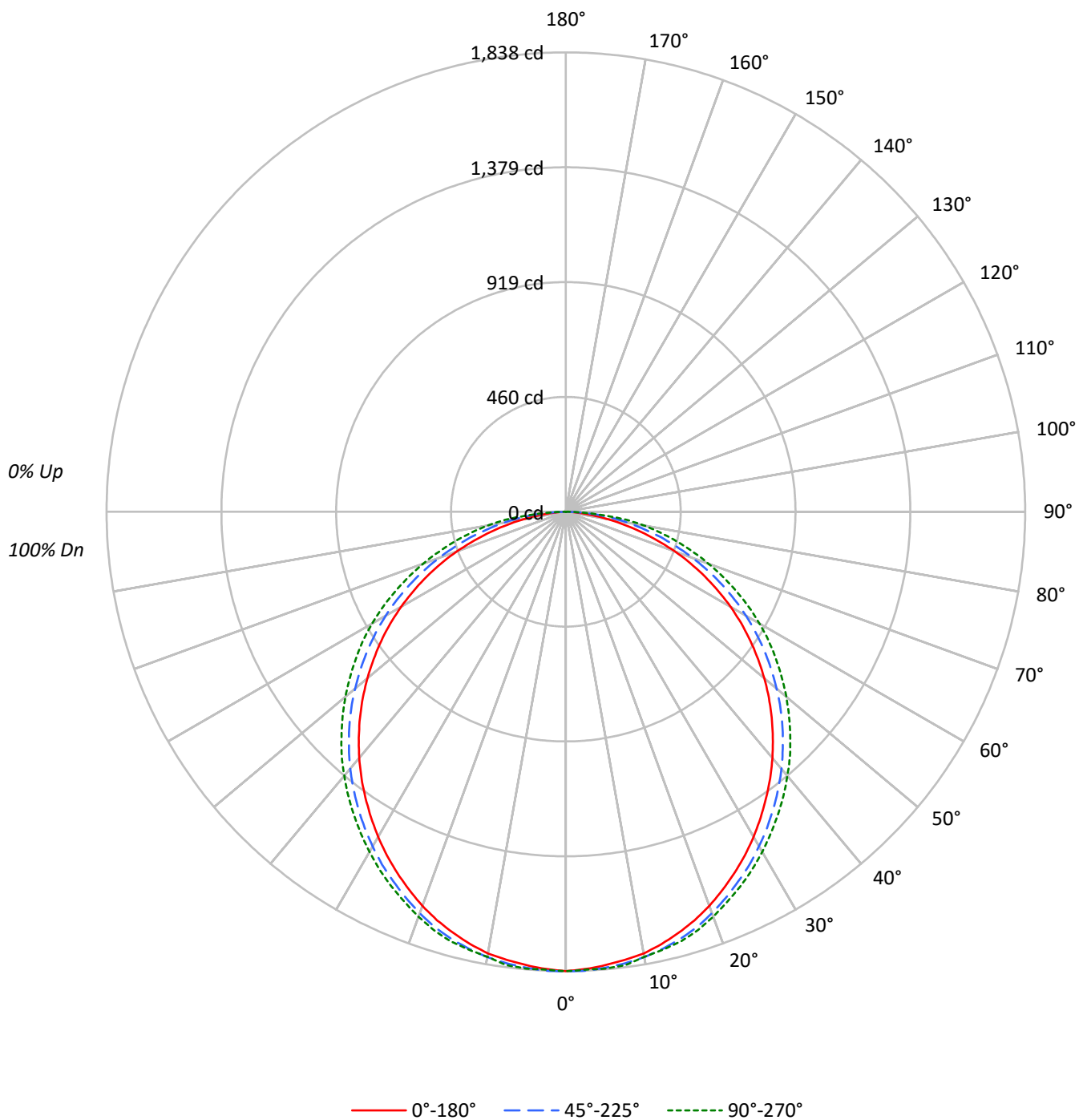
Lumens per Lamp: N/A
Luminaire Lumens: 5347.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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	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°	5756	5756	5756
5°	5724	5756	5767
10°	5706	5753	5749
15°	5653	5735	5769
20°	5592	5696	5746
25°	5512	5639	5711
30°	5432	5590	5681
35°	5343	5536	5654
40°	5257	5487	5638
45°	5160	5430	5624
50°	5049	5363	5609
55°	4923	5294	5601
60°	4769	5216	5604
65°	4551	5105	5574
70°	4255	4949	5560
75°	3771	4760	5581
80°	3069	4523	5745
85°	1983	4175	4958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	3.3
10°-20°	498.1	9.3
20°-30°	751.0	14.0
30°-40°	903.7	16.9
40°-50°	942.6	17.6
50°-60°	864.0	16.2
60°-70°	678.5	12.7
70°-80°	412.9	7.7
80°-90°	122.2	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°	1423.1	26.6
0°-40°	2326.8	43.5
0°-60°	4133.5	77.3
0°-90°	5347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1821	1832	1831	1829	1835	173
15°	1744	1761	1769	1771	1780	492
25°	1595	1617	1632	1643	1653	735
35°	1398	1419	1448	1469	1479	875
45°	1165	1189	1226	1255	1270	899
55°	902	925	970	1009	1026	806
65°	614	637	689	735	752	608
75°	312	340	393	440	461	330
85°	55	78	116	130	138	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.1	1838.1	1838.1	1838.1	1838.1
2.5°	1831.2	1840.4	1838.1	1830.1	1833.5
5°	1820.9	1832.4	1831.2	1828.9	1834.7
7.5°	1808.2	1820.9	1822.0	1822.0	1828.9
10°	1794.4	1807.1	1809.4	1805.9	1808.2
12.5°	1771.4	1786.4	1791.0	1791.0	1794.4
15°	1743.8	1761.0	1769.1	1771.4	1779.5
17.5°	1713.9	1732.3	1742.6	1748.4	1755.3
20°	1678.2	1697.8	1709.3	1716.2	1724.2
22.5°	1638.0	1659.8	1672.5	1679.4	1688.6
25°	1595.4	1617.3	1632.2	1642.6	1652.9
27.5°	1550.5	1571.3	1592.0	1604.6	1613.8
30°	1502.2	1524.1	1545.9	1562.1	1571.3
32.5°	1450.5	1473.5	1498.8	1516.0	1526.4
35°	1397.6	1419.4	1448.2	1468.9	1479.2
37.5°	1343.5	1366.5	1396.4	1418.3	1430.9
40°	1286.0	1310.1	1342.4	1366.5	1379.2
42.5°	1226.2	1249.2	1284.8	1312.4	1327.4
45°	1165.2	1189.4	1226.2	1254.9	1269.9
47.5°	1101.9	1125.0	1165.2	1198.6	1211.2
50°	1036.4	1058.2	1100.8	1136.5	1151.4
52.5°	969.7	992.7	1035.2	1073.2	1089.3
55°	901.8	924.8	969.7	1008.8	1026.0
57.5°	832.8	855.8	901.8	942.1	962.8
60°	761.5	784.5	832.8	874.2	894.9
62.5°	687.9	712.0	761.5	804.0	825.9
65°	614.2	637.2	689.0	735.0	752.3
67.5°	540.6	563.6	614.2	660.2	681.0
70°	464.7	491.2	540.6	588.9	607.3
72.5°	385.3	415.2	464.7	515.3	533.7
75°	311.7	340.5	393.4	440.5	461.3
77.5°	239.3	270.3	319.8	368.1	388.8
80°	170.2	200.1	250.8	296.8	318.6
82.5°	108.1	134.6	185.2	226.6	242.7
85°	55.2	78.2	116.2	130.0	138.0
87.5°	16.1	27.6	41.4	51.8	57.5
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	17.58	19.24	17.95	19.55	19.87	18.32	19.98	18.68	20.29	20.60
	3H	19.35	20.85	19.73	21.18	21.54	20.39	21.90	20.77	22.23	22.59
	4H	19.97	21.39	20.37	21.74	22.11	21.26	22.68	21.66	23.03	23.40
	6H	20.38	21.69	20.79	22.06	22.45	22.00	23.32	22.41	23.69	24.08
	8H	20.48	21.74	20.90	22.13	22.53	22.30	23.56	22.72	23.95	24.35
	12H	20.53	21.74	20.96	22.12	22.55	22.49	23.70	22.92	24.08	24.51
4H	2H	18.35	19.77	18.75	20.12	20.49	18.92	20.34	19.32	20.69	21.06
	3H	20.34	21.54	20.75	21.93	22.33	21.23	22.43	21.64	22.82	23.22
	4H	21.08	22.17	21.51	22.58	23.01	22.25	23.34	22.68	23.75	24.18
	6H	21.61	22.56	22.06	23.00	23.45	23.16	24.11	23.61	24.55	25.00
	8H	21.75	22.64	22.21	23.08	23.55	23.52	24.41	23.98	24.85	25.32
	12H	21.83	22.63	22.31	23.11	23.58	23.78	24.58	24.26	25.05	25.52
8H	4H	21.53	22.42	21.99	22.86	23.32	22.55	23.44	23.01	23.88	24.34
	6H	22.19	22.93	22.68	23.42	23.89	23.61	24.35	24.10	24.84	25.31
	8H	22.40	23.07	22.91	23.57	24.06	24.08	24.74	24.59	25.25	25.73
	12H	22.54	23.13	23.04	23.62	24.18	24.43	25.02	24.94	25.51	26.07
12H	4H	21.61	22.41	22.09	22.88	23.35	22.58	23.38	23.05	23.85	24.32
	6H	22.31	22.98	22.82	23.49	23.97	23.66	24.33	24.16	24.83	25.31
	8H	22.59	23.18	23.10	23.67	24.23	24.20	24.78	24.70	25.27	25.83