

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: P1587814

Luminaire Tested: 22CZSP-SB-60HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587814
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-60HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

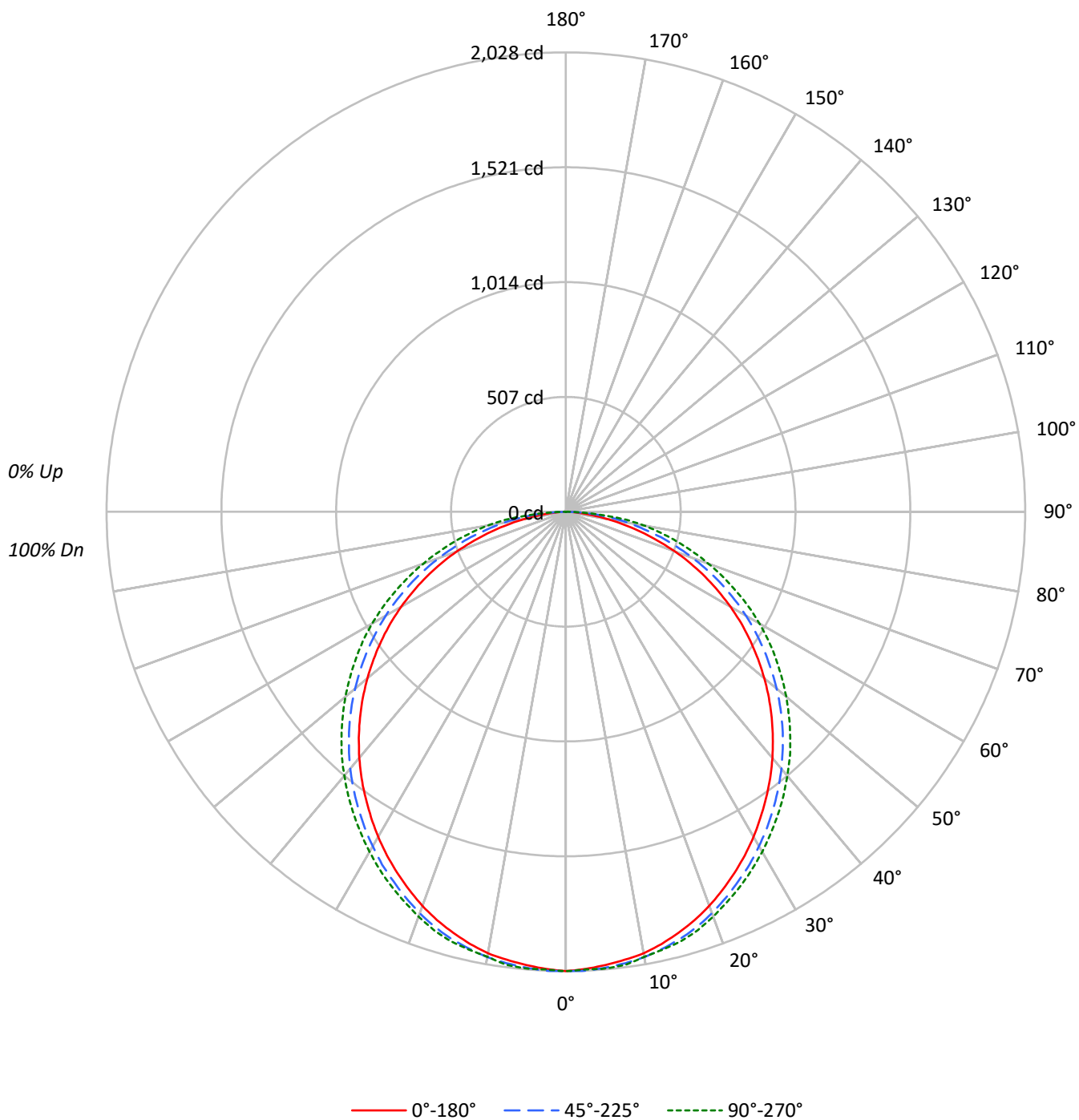
Lumens per Lamp: N/A
Luminaire Lumens: 5899.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6350	6350	6350
5°	6314	6350	6362
10°	6294	6347	6343
15°	6237	6327	6364
20°	6170	6284	6339
25°	6081	6221	6301
30°	5992	6167	6268
35°	5894	6107	6238
40°	5799	6053	6219
45°	5693	5991	6204
50°	5570	5916	6188
55°	5431	5840	6180
60°	5261	5754	6183
65°	5021	5632	6149
70°	4694	5460	6134
75°	4161	5251	6157
80°	3387	4988	6338
85°	2188	4606	5472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.3
10°-20°	549.5	9.3
20°-30°	828.6	14.0
30°-40°	997.0	16.9
40°-50°	1039.9	17.6
50°-60°	953.2	16.2
60°-70°	748.5	12.7
70°-80°	455.6	7.7
80°-90°	134.8	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°	1570.0	26.6
0°-40°	2567.0	43.5
0°-60°	4560.2	77.3
0°-90°	5899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2009	2022	2020	2018	2024	191
15°	1924	1943	1952	1954	1963	543
25°	1760	1784	1801	1812	1824	811
35°	1542	1566	1598	1620	1632	965
45°	1286	1312	1353	1384	1401	991
55°	995	1020	1070	1113	1132	889
65°	678	703	760	811	830	670
75°	344	376	434	486	509	365
85°	61	86	128	143	152	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.9	2027.9	2027.9	2027.9	2027.9
2.5°	2020.3	2030.4	2027.9	2019.0	2022.8
5°	2008.8	2021.5	2020.3	2017.7	2024.1
7.5°	1994.9	2008.8	2010.1	2010.1	2017.7
10°	1979.6	1993.6	1996.1	1992.3	1994.9
12.5°	1954.3	1970.8	1975.8	1975.8	1979.6
15°	1923.8	1942.8	1951.7	1954.3	1963.2
17.5°	1890.8	1911.1	1922.5	1928.9	1936.5
20°	1851.5	1873.1	1885.7	1893.4	1902.2
22.5°	1807.1	1831.2	1845.1	1852.7	1862.9
25°	1760.1	1784.2	1800.7	1812.1	1823.6
27.5°	1710.6	1733.5	1756.3	1770.3	1780.4
30°	1657.3	1681.4	1705.5	1723.3	1733.5
32.5°	1600.2	1625.6	1653.5	1672.6	1684.0
35°	1541.8	1566.0	1597.7	1620.5	1631.9
37.5°	1482.2	1507.6	1540.6	1564.7	1578.6
40°	1418.7	1445.4	1480.9	1507.6	1521.5
42.5°	1352.8	1378.1	1417.5	1447.9	1464.4
45°	1285.5	1312.2	1352.8	1384.5	1401.0
47.5°	1215.7	1241.1	1285.5	1322.3	1336.3
50°	1143.4	1167.5	1214.4	1253.8	1270.3
52.5°	1069.8	1095.2	1142.1	1184.0	1201.7
55°	994.9	1020.3	1069.8	1112.9	1132.0
57.5°	918.8	944.1	994.9	1039.3	1062.2
60°	840.1	865.5	918.8	964.4	987.3
62.5°	758.9	785.5	840.1	887.0	911.1
65°	677.6	703.0	760.1	810.9	829.9
67.5°	596.4	621.8	677.6	728.4	751.3
70°	512.7	541.9	596.4	649.7	670.0
72.5°	425.1	458.1	512.7	568.5	588.8
75°	343.9	375.6	434.0	486.0	508.9
77.5°	264.0	298.2	352.8	406.1	428.9
80°	187.8	220.8	276.6	327.4	351.5
82.5°	119.3	148.5	204.3	250.0	267.8
85°	60.9	86.3	128.2	143.4	152.3
87.5°	17.8	30.5	45.7	57.1	63.5
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	17.92	19.58	18.29	19.90	20.21	18.66	20.32	19.02	20.63	20.95
	3H	19.69	21.20	20.07	21.52	21.88	20.74	22.24	21.11	22.57	22.93
	4H	20.31	21.73	20.71	22.08	22.45	21.60	23.02	22.00	23.37	23.74
	6H	20.72	22.04	21.13	22.40	22.79	22.35	23.66	22.76	24.03	24.42
	8H	20.82	22.08	21.24	22.47	22.87	22.64	23.90	23.06	24.29	24.69
	12H	20.87	22.08	21.30	22.46	22.89	22.83	24.04	23.26	24.42	24.85
4H	2H	18.69	20.11	19.09	20.46	20.83	19.26	20.68	19.66	21.03	21.40
	3H	20.68	21.88	21.09	22.27	22.67	21.57	22.77	21.98	23.17	23.57
	4H	21.42	22.51	21.85	22.92	23.35	22.59	23.68	23.02	24.09	24.52
	6H	21.95	22.90	22.40	23.34	23.80	23.50	24.45	23.95	24.89	25.34
	8H	22.09	22.98	22.55	23.43	23.89	23.87	24.75	24.32	25.20	25.66
	12H	22.17	22.98	22.65	23.45	23.92	24.12	24.92	24.60	25.39	25.86
8H	4H	21.87	22.76	22.33	23.20	23.66	22.89	23.78	23.35	24.22	24.69
	6H	22.53	23.27	23.02	23.76	24.24	23.95	24.69	24.44	25.18	25.65
	8H	22.74	23.41	23.25	23.91	24.40	24.42	25.09	24.93	25.59	26.08
	12H	22.88	23.47	23.38	23.96	24.52	24.77	25.36	25.28	25.85	26.41
12H	4H	21.95	22.75	22.43	23.23	23.69	22.92	23.72	23.40	24.19	24.66
	6H	22.66	23.32	23.16	23.83	24.31	24.00	24.67	24.51	25.17	25.66
	8H	22.93	23.52	23.44	24.01	24.57	24.54	25.13	25.04	25.62	26.17