

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: P1587819

Luminaire Tested: 22CZSP-SB-60HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587819
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-60HE-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

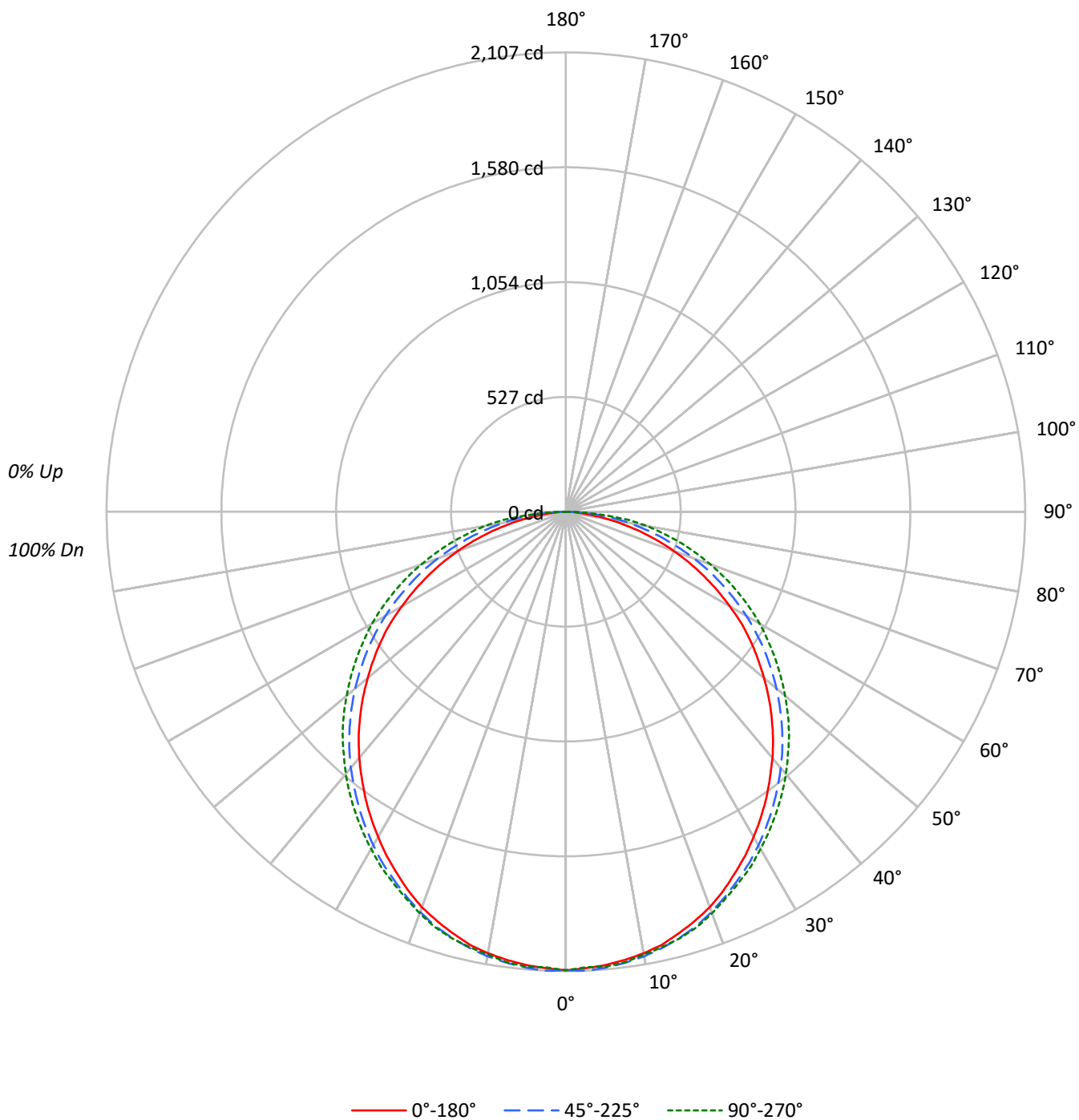
Lumens per Lamp: N/A
Luminaire Lumens: 6137.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	6585	6585	6585
5°	6561	6598	6581
10°	6538	6583	6558
15°	6489	6556	6565
20°	6432	6510	6531
25°	6328	6440	6485
30°	6227	6387	6458
35°	6127	6326	6435
40°	6026	6270	6419
45°	5913	6212	6414
50°	5783	6144	6397
55°	5651	6077	6396
60°	5442	5987	6434
65°	5187	5870	6439
70°	4840	5708	6457
75°	4306	5500	6568
80°	3536	5271	6816
85°	2332	4947	6162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	3.2
10°-20°	569.4	9.3
20°-30°	858.2	14.0
30°-40°	1033.5	16.8
40°-50°	1079.7	17.6
50°-60°	992.0	16.2
60°-70°	781.2	12.7
70°-80°	478.9	7.8
80°-90°	145.2	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°	1626.5	26.5
0°-40°	2660.0	43.3
0°-60°	4731.7	77.1
0°-90°	6137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2087	2091	2099	2096	2094	198
15°	2002	2009	2022	2030	2025	565
25°	1831	1843	1864	1883	1877	844
35°	1603	1624	1655	1685	1683	1003
45°	1335	1364	1403	1442	1448	1030
55°	1035	1065	1113	1161	1172	924
65°	700	736	792	846	869	692
75°	356	398	455	509	543	378
85°	65	96	138	153	172	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	2095.1	2100.3	2106.8	2096.4	2091.2
5°	2087.3	2091.2	2099.0	2096.4	2093.8
7.5°	2073.0	2075.6	2086.0	2086.0	2083.4
10°	2056.1	2061.3	2070.4	2069.1	2062.6
12.5°	2034.1	2038.0	2048.4	2048.4	2044.5
15°	2001.6	2009.4	2022.4	2030.2	2025.0
17.5°	1967.8	1975.6	1992.5	2000.3	1997.7
20°	1930.2	1936.6	1953.5	1965.2	1960.0
22.5°	1883.4	1891.2	1910.7	1923.7	1918.5
25°	1831.4	1843.1	1863.9	1883.4	1876.9
27.5°	1779.5	1792.5	1818.4	1837.9	1835.3
30°	1722.3	1739.2	1766.5	1791.2	1786.0
32.5°	1663.9	1683.4	1711.9	1737.9	1736.6
35°	1602.8	1623.6	1654.8	1684.7	1683.4
37.5°	1537.9	1562.6	1595.0	1627.5	1628.8
40°	1474.2	1497.6	1534.0	1569.1	1570.4
42.5°	1406.7	1431.4	1470.3	1506.7	1508.0
45°	1335.3	1363.8	1402.8	1441.8	1448.3
47.5°	1262.5	1292.4	1332.7	1374.2	1382.0
50°	1187.2	1218.4	1261.2	1305.4	1313.2
52.5°	1110.6	1143.0	1187.2	1231.3	1243.0
55°	1035.2	1065.1	1113.1	1161.2	1171.6
57.5°	956.0	983.3	1035.2	1085.9	1098.9
60°	869.0	902.7	956.0	1006.6	1027.4
62.5°	784.5	820.9	875.5	926.1	949.5
65°	700.1	736.5	792.3	845.6	869.0
67.5°	614.4	652.0	711.8	762.4	788.4
70°	528.6	566.3	623.5	678.0	705.3
72.5°	442.9	483.2	539.0	594.9	622.2
75°	355.9	397.5	454.6	509.2	542.9
77.5°	274.1	314.3	371.5	427.3	455.9
80°	196.1	236.4	292.3	348.1	378.0
82.5°	124.7	162.4	216.9	263.7	291.0
85°	64.9	96.1	137.7	153.3	171.5
87.5°	19.5	37.7	53.3	59.7	74.0
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	18.06	19.72	18.43	20.04	20.35	18.81	20.47	19.17	20.79	21.10
	3H	19.82	21.33	20.20	21.66	22.02	20.90	22.41	21.28	22.74	23.10
	4H	20.45	21.87	20.85	22.22	22.59	21.79	23.21	22.19	23.56	23.93
	6H	20.86	22.18	21.27	22.55	22.94	22.56	23.88	22.97	24.24	24.63
	8H	20.97	22.23	21.39	22.62	23.02	22.87	24.13	23.29	24.52	24.92
	12H	21.02	22.23	21.45	22.61	23.04	23.08	24.29	23.51	24.67	25.10
4H	2H	18.83	20.25	19.23	20.60	20.98	19.41	20.83	19.81	21.18	21.56
	3H	20.83	22.02	21.23	22.42	22.82	21.74	22.94	22.15	23.33	23.73
	4H	21.58	22.67	22.01	23.08	23.51	22.77	23.86	23.21	24.27	24.71
	6H	22.12	23.07	22.57	23.51	23.96	23.71	24.66	24.16	25.10	25.55
	8H	22.26	23.16	22.72	23.60	24.06	24.09	24.98	24.55	25.42	25.89
	12H	22.35	23.15	22.83	23.63	24.10	24.36	25.17	24.84	25.64	26.11
8H	4H	22.03	22.92	22.49	23.37	23.83	23.07	23.97	23.53	24.41	24.87
	6H	22.71	23.45	23.20	23.94	24.41	24.16	24.90	24.65	25.39	25.86
	8H	22.93	23.60	23.44	24.10	24.59	24.65	25.32	25.15	25.82	26.30
	12H	23.08	23.67	23.58	24.16	24.72	25.02	25.61	25.53	26.10	26.66
12H	4H	22.11	22.92	22.59	23.39	23.86	23.10	23.91	23.58	24.38	24.85
	6H	22.84	23.51	23.34	24.01	24.50	24.21	24.88	24.72	25.39	25.87
	8H	23.13	23.72	23.63	24.21	24.77	24.77	25.36	25.27	25.85	26.41