

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: P1587813

Luminaire Tested: 22CZSP-SB-60HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587813
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

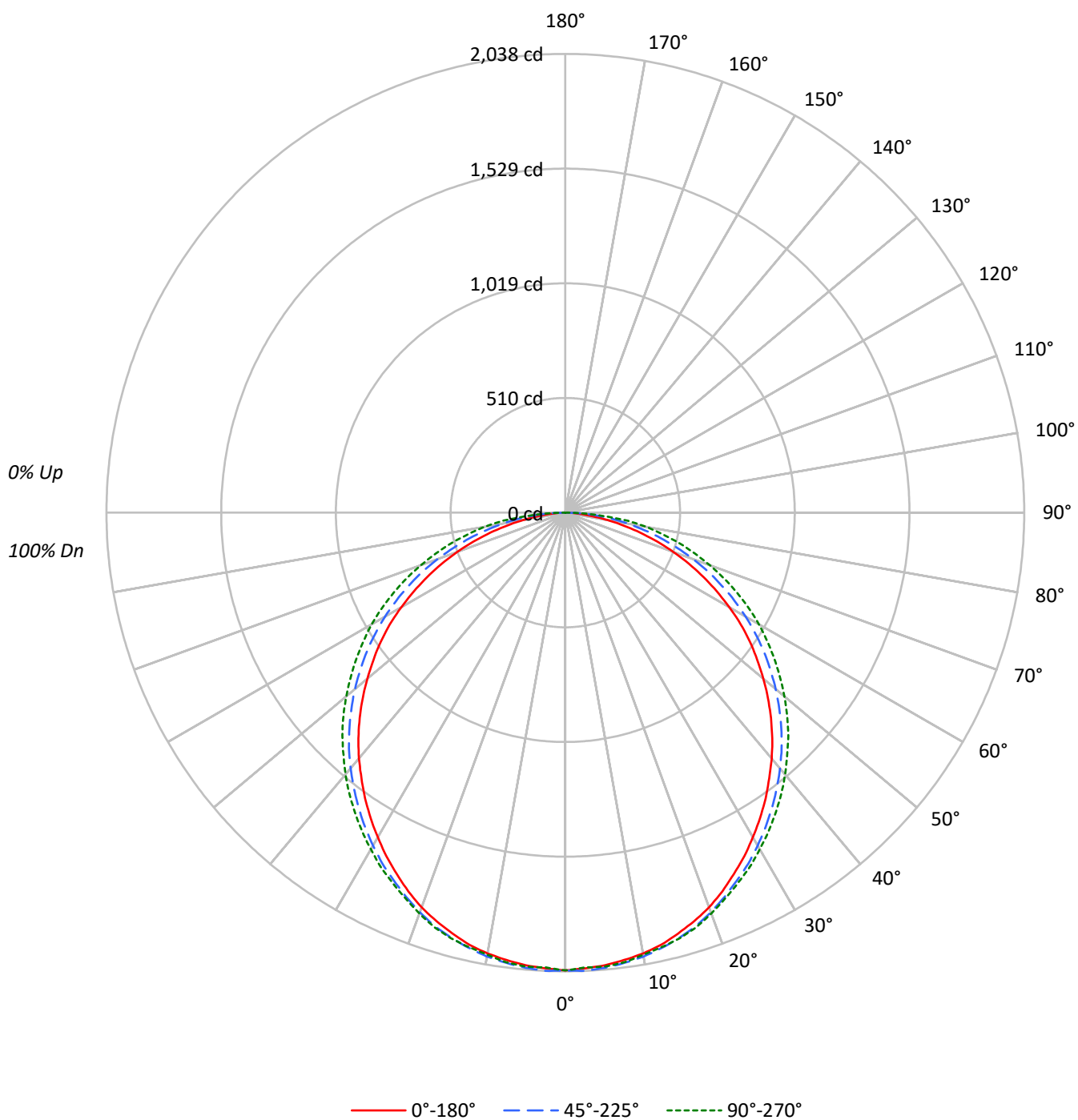
Lumens per Lamp: N/A
Luminaire Lumens: 5935.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	93	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	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6368	6368	6368
5°	6345	6381	6365
10°	6323	6367	6342
15°	6275	6340	6348
20°	6220	6295	6316
25°	6120	6228	6271
30°	6022	6177	6245
35°	5925	6117	6223
40°	5828	6064	6208
45°	5718	6008	6202
50°	5593	5942	6187
55°	5465	5877	6185
60°	5263	5790	6223
65°	5017	5677	6227
70°	4680	5520	6245
75°	4164	5319	6353
80°	3421	5096	6591
85°	2256	4786	5957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	3.2
10°-20°	550.6	9.3
20°-30°	830.0	14.0
30°-40°	999.5	16.8
40°-50°	1044.2	17.6
50°-60°	959.3	16.2
60°-70°	755.4	12.7
70°-80°	463.2	7.8
80°-90°	140.4	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°	1573.0	26.5
0°-40°	2572.4	43.3
0°-60°	4575.9	77.1
0°-90°	5935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2019	2022	2030	2027	2025	192
15°	1936	1943	1956	1963	1958	546
25°	1771	1782	1803	1821	1815	817
35°	1550	1570	1600	1629	1628	970
45°	1291	1319	1357	1394	1401	996
55°	1001	1030	1076	1123	1133	893
65°	677	712	766	818	840	669
75°	344	384	440	492	525	366
85°	63	93	133	148	166	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.7	2033.7	2033.7	2033.7	2033.7
2.5°	2026.2	2031.2	2037.5	2027.4	2022.4
5°	2018.6	2022.4	2029.9	2027.4	2024.9
7.5°	2004.8	2007.3	2017.4	2017.4	2014.8
10°	1988.5	1993.5	2002.3	2001.0	1994.7
12.5°	1967.1	1970.9	1980.9	1980.9	1977.2
15°	1935.7	1943.2	1955.8	1963.3	1958.3
17.5°	1903.0	1910.6	1926.9	1934.5	1931.9
20°	1866.6	1872.9	1889.2	1900.5	1895.5
22.5°	1821.4	1828.9	1847.8	1860.3	1855.3
25°	1771.2	1782.5	1802.6	1821.4	1815.1
27.5°	1720.9	1733.5	1758.6	1777.4	1774.9
30°	1665.6	1682.0	1708.3	1732.2	1727.2
32.5°	1609.1	1628.0	1655.6	1680.7	1679.5
35°	1550.1	1570.2	1600.3	1629.2	1628.0
37.5°	1487.3	1511.1	1542.5	1573.9	1575.2
40°	1425.7	1448.3	1483.5	1517.4	1518.7
42.5°	1360.4	1384.3	1421.9	1457.1	1458.4
45°	1291.3	1318.9	1356.6	1394.3	1400.6
47.5°	1221.0	1249.9	1288.8	1329.0	1336.5
50°	1148.1	1178.3	1219.7	1262.4	1270.0
52.5°	1074.0	1105.4	1148.1	1190.8	1202.1
55°	1001.1	1030.0	1076.5	1123.0	1133.0
57.5°	924.5	950.9	1001.1	1050.1	1062.7
60°	840.4	873.0	924.5	973.5	993.6
62.5°	758.7	793.9	846.6	895.6	918.2
65°	677.1	712.2	766.2	817.7	840.4
67.5°	594.2	630.6	688.4	737.4	762.5
70°	511.2	547.7	602.9	655.7	682.1
72.5°	428.3	467.3	521.3	575.3	601.7
75°	344.2	384.4	439.6	492.4	525.1
77.5°	265.0	304.0	359.3	413.3	440.9
80°	189.7	228.6	282.6	336.6	365.5
82.5°	120.6	157.0	209.8	255.0	281.4
85°	62.8	93.0	133.2	148.2	165.8
87.5°	18.8	36.4	51.5	57.8	71.6
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	17.95	19.61	18.31	19.92	20.24	18.69	20.35	19.06	20.67	20.98
	3H	19.71	21.22	20.08	21.54	21.90	20.79	22.30	21.16	22.62	22.98
	4H	20.33	21.76	20.73	22.10	22.48	21.67	23.09	22.07	23.44	23.82
	6H	20.75	22.07	21.16	22.43	22.82	22.44	23.76	22.85	24.12	24.51
	8H	20.85	22.11	21.27	22.50	22.90	22.75	24.01	23.17	24.40	24.80
	12H	20.90	22.11	21.33	22.50	22.92	22.96	24.17	23.39	24.56	24.98
4H	2H	18.72	20.14	19.11	20.49	20.86	19.30	20.72	19.69	21.06	21.44
	3H	20.71	21.91	21.12	22.30	22.70	21.62	22.82	22.03	23.22	23.62
	4H	21.46	22.55	21.89	22.96	23.40	22.66	23.75	23.09	24.16	24.59
	6H	22.00	22.95	22.45	23.39	23.85	23.59	24.54	24.04	24.98	25.43
	8H	22.15	23.04	22.61	23.48	23.94	23.97	24.87	24.43	25.31	25.77
	12H	22.23	23.04	22.71	23.51	23.98	24.25	25.05	24.73	25.53	25.99
8H	4H	21.92	22.81	22.37	23.25	23.71	22.96	23.85	23.42	24.29	24.76
	6H	22.59	23.34	23.08	23.82	24.30	24.04	24.79	24.53	25.27	25.75
	8H	22.81	23.48	23.32	23.99	24.47	24.53	25.20	25.04	25.70	26.19
	12H	22.96	23.55	23.47	24.04	24.60	24.91	25.50	25.41	25.99	26.55
12H	4H	22.00	22.80	22.48	23.28	23.74	22.99	23.79	23.47	24.26	24.73
	6H	22.72	23.39	23.23	23.90	24.38	24.09	24.77	24.60	25.27	25.75
	8H	23.01	23.60	23.52	24.09	24.65	24.65	25.24	25.15	25.73	26.29