

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: P1587820

Luminaire Tested: 22CZSP-SB-60HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587820
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-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

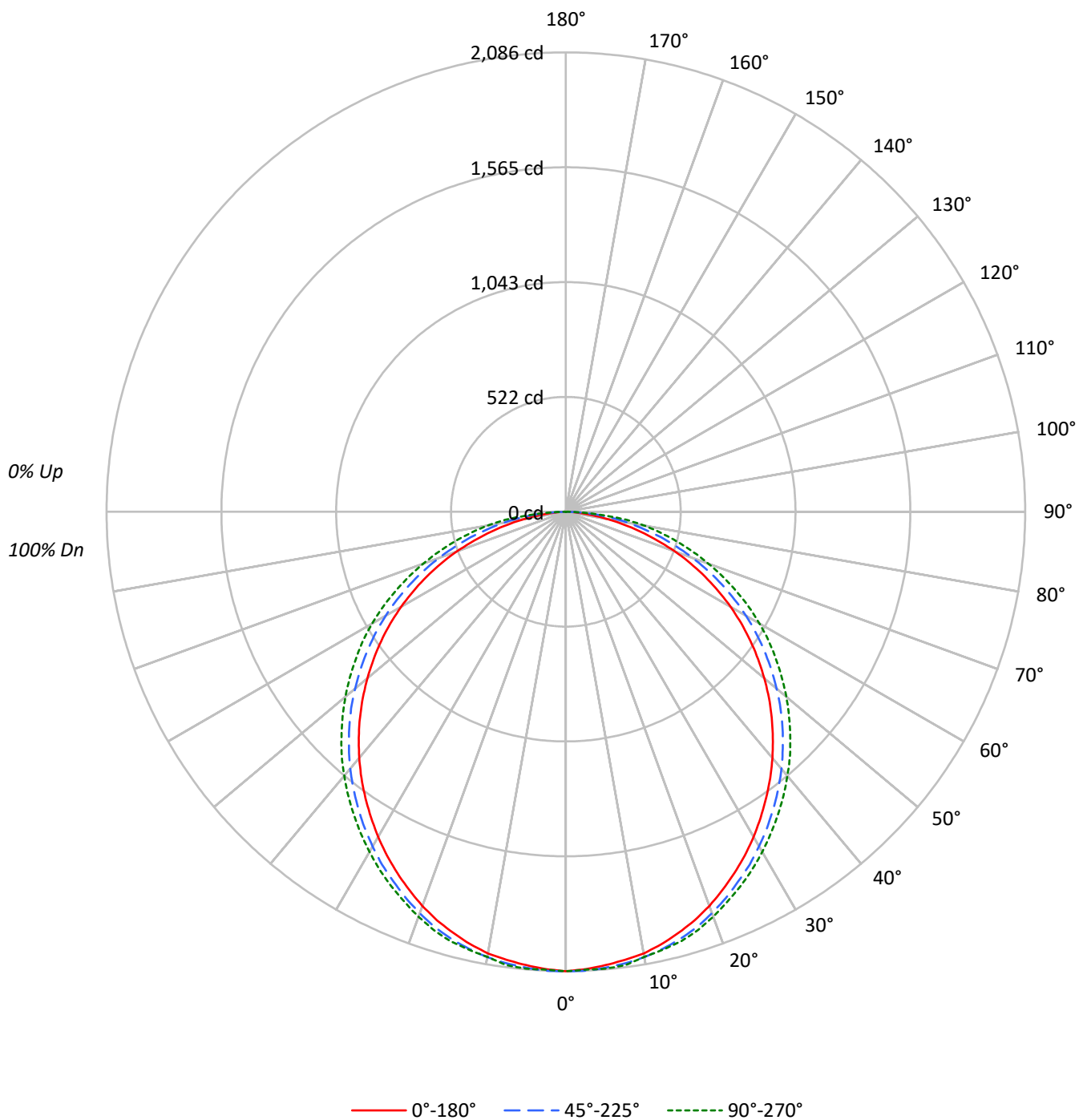
Lumens per Lamp: N/A
Luminaire Lumens: 6069.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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°	6533	6533	6533
5°	6496	6533	6546
10°	6476	6530	6526
15°	6416	6510	6547
20°	6347	6465	6522
25°	6256	6401	6482
30°	6165	6345	6448
35°	6064	6283	6418
40°	5966	6228	6399
45°	5857	6163	6383
50°	5730	6086	6367
55°	5588	6009	6358
60°	5413	5919	6361
65°	5166	5794	6326
70°	4829	5618	6311
75°	4280	5402	6334
80°	3484	5132	6521
85°	2253	4739	5630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	3.3
10°-20°	565.4	9.3
20°-30°	852.4	14.0
30°-40°	1025.7	16.9
40°-50°	1069.9	17.6
50°-60°	980.7	16.2
60°-70°	770.1	12.7
70°-80°	468.7	7.7
80°-90°	138.7	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°	1615.3	26.6
0°-40°	2641.0	43.5
0°-60°	4691.6	77.3
0°-90°	6069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2067	2080	2078	2076	2082	196
15°	1979	1999	2008	2011	2020	558
25°	1811	1836	1853	1864	1876	834
35°	1586	1611	1644	1667	1679	993
45°	1322	1350	1392	1424	1441	1020
55°	1024	1050	1101	1145	1165	915
65°	697	723	782	834	854	690
75°	354	386	446	500	524	375
85°	63	89	132	148	157	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.3	2086.3	2086.3	2086.3	2086.3
2.5°	2078.5	2088.9	2086.3	2077.2	2081.1
5°	2066.7	2079.8	2078.5	2075.9	2082.4
7.5°	2052.4	2066.7	2068.0	2068.0	2075.9
10°	2036.7	2051.1	2053.7	2049.8	2052.4
12.5°	2010.6	2027.6	2032.8	2032.8	2036.7
15°	1979.3	1998.8	2008.0	2010.6	2019.7
17.5°	1945.3	1966.2	1977.9	1984.5	1992.3
20°	1904.8	1927.0	1940.1	1947.9	1957.1
22.5°	1859.1	1883.9	1898.3	1906.1	1916.6
25°	1810.8	1835.6	1852.6	1864.4	1876.1
27.5°	1759.9	1783.4	1806.9	1821.3	1831.7
30°	1705.1	1729.9	1754.7	1773.0	1783.4
32.5°	1646.3	1672.4	1701.2	1720.8	1732.5
35°	1586.3	1611.1	1643.7	1667.2	1679.0
37.5°	1524.9	1551.0	1585.0	1609.8	1624.1
40°	1459.6	1487.1	1523.6	1551.0	1565.4
42.5°	1391.7	1417.9	1458.3	1489.7	1506.6
45°	1322.5	1350.0	1391.7	1424.4	1441.4
47.5°	1250.7	1276.9	1322.5	1360.4	1374.8
50°	1176.3	1201.1	1249.4	1289.9	1306.9
52.5°	1100.6	1126.7	1175.0	1218.1	1236.4
55°	1023.6	1049.7	1100.6	1145.0	1164.6
57.5°	945.2	971.3	1023.6	1069.3	1092.8
60°	864.3	890.4	945.2	992.2	1015.7
62.5°	780.7	808.2	864.3	912.6	937.4
65°	697.2	723.3	782.0	834.3	853.8
67.5°	613.6	639.7	697.2	749.4	772.9
70°	527.5	557.5	613.6	668.5	689.3
72.5°	437.4	471.3	527.5	584.9	605.8
75°	353.8	386.5	446.5	500.0	523.5
77.5°	271.6	306.8	363.0	417.8	441.3
80°	193.2	227.2	284.6	336.8	361.6
82.5°	122.7	152.8	210.2	257.2	275.5
85°	62.7	88.8	131.9	147.5	156.7
87.5°	18.3	31.3	47.0	58.8	65.3
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	18.02	19.68	18.38	19.99	20.31	18.76	20.42	19.12	20.73	21.04
	3H	19.79	21.29	20.17	21.62	21.98	20.83	22.34	21.21	22.67	23.03
	4H	20.41	21.83	20.81	22.18	22.55	21.70	23.12	22.10	23.47	23.84
	6H	20.82	22.13	21.23	22.50	22.89	22.44	23.76	22.85	24.13	24.52
	8H	20.92	22.18	21.34	22.57	22.97	22.74	24.00	23.16	24.39	24.79
	12H	20.97	22.18	21.40	22.56	22.99	22.93	24.14	23.36	24.52	24.95
4H	2H	18.79	20.21	19.19	20.56	20.93	19.36	20.78	19.76	21.13	21.50
	3H	20.78	21.98	21.19	22.37	22.77	21.67	22.87	22.08	23.27	23.66
	4H	21.52	22.61	21.95	23.02	23.45	22.69	23.78	23.12	24.19	24.62
	6H	22.05	23.00	22.50	23.44	23.89	23.60	24.55	24.05	24.99	25.44
	8H	22.19	23.08	22.65	23.52	23.99	23.96	24.85	24.42	25.29	25.76
	12H	22.27	23.07	22.75	23.55	24.02	24.22	25.02	24.70	25.49	25.96
8H	4H	21.97	22.86	22.43	23.30	23.76	22.99	23.88	23.45	24.32	24.78
	6H	22.63	23.37	23.12	23.86	24.33	24.05	24.79	24.54	25.28	25.75
	8H	22.84	23.51	23.35	24.01	24.50	24.52	25.18	25.03	25.69	26.17
	12H	22.98	23.57	23.48	24.06	24.62	24.87	25.46	25.38	25.95	26.51
12H	4H	22.05	22.85	22.53	23.32	23.79	23.02	23.82	23.49	24.29	24.76
	6H	22.75	23.42	23.26	23.93	24.41	24.10	24.76	24.60	25.27	25.75
	8H	23.03	23.62	23.54	24.11	24.67	24.64	25.22	25.14	25.71	26.27