

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: P1587816

Luminaire Tested: 22CZSP-SB-60HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587816
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

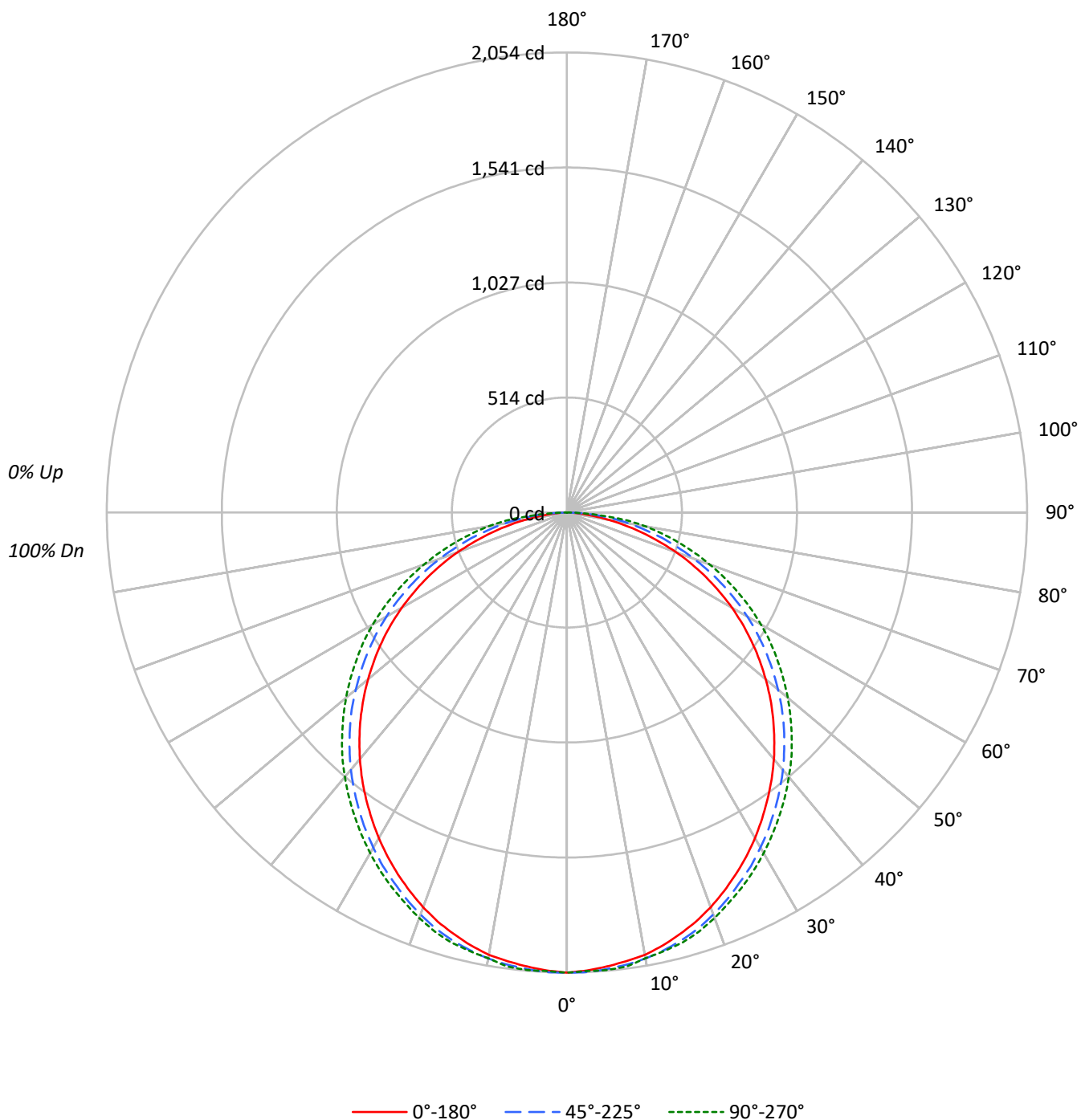
Lumens per Lamp: N/A
Luminaire Lumens: 5976.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	85	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	71	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	60	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	39	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	35	35	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	31	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	28	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6433	6433	6433
5°	6397	6433	6445
10°	6377	6430	6426
15°	6318	6410	6447
20°	6250	6366	6422
25°	6161	6303	6383
30°	6071	6247	6350
35°	5971	6187	6320
40°	5875	6133	6301
45°	5767	6069	6285
50°	5643	5993	6269
55°	5502	5916	6260
60°	5330	5829	6264
65°	5087	5706	6230
70°	4755	5532	6215
75°	4215	5320	6237
80°	3432	5055	6421
85°	2217	4663	5544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	3.3
10°-20°	556.7	9.3
20°-30°	839.4	14.0
30°-40°	1010.0	16.9
40°-50°	1053.5	17.6
50°-60°	965.6	16.2
60°-70°	758.3	12.7
70°-80°	461.5	7.7
80°-90°	136.5	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°	1590.5	26.6
0°-40°	2600.5	43.5
0°-60°	4619.7	77.3
0°-90°	5976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2035	2048	2047	2044	2050	193
15°	1949	1968	1977	1980	1989	550
25°	1783	1808	1824	1836	1847	822
35°	1562	1586	1618	1642	1653	977
45°	1302	1329	1370	1403	1419	1004
55°	1008	1034	1084	1127	1147	901
65°	686	712	770	822	841	679
75°	348	380	440	492	516	369
85°	62	87	130	145	154	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054.3	2054.3	2054.3	2054.3	2054.3
2.5°	2046.6	2056.9	2054.3	2045.3	2049.2
5°	2035.1	2047.9	2046.6	2044.1	2050.5
7.5°	2020.9	2035.1	2036.3	2036.3	2044.1
10°	2005.5	2019.6	2022.2	2018.3	2020.9
12.5°	1979.8	1996.5	2001.6	2001.6	2005.5
15°	1948.9	1968.2	1977.2	1979.8	1988.8
17.5°	1915.5	1936.1	1947.6	1954.1	1961.8
20°	1875.6	1897.5	1910.4	1918.1	1927.1
22.5°	1830.7	1855.1	1869.2	1876.9	1887.2
25°	1783.1	1807.5	1824.2	1835.8	1847.4
27.5°	1732.9	1756.1	1779.2	1793.4	1803.7
30°	1679.0	1703.4	1727.8	1745.8	1756.1
32.5°	1621.1	1646.8	1675.1	1694.4	1706.0
35°	1562.0	1586.4	1618.5	1641.7	1653.2
37.5°	1501.5	1527.3	1560.7	1585.1	1599.2
40°	1437.3	1464.3	1500.3	1527.3	1541.4
42.5°	1370.4	1396.1	1436.0	1466.8	1483.5
45°	1302.3	1329.3	1370.4	1402.6	1419.3
47.5°	1231.6	1257.3	1302.3	1339.6	1353.7
50°	1158.3	1182.7	1230.3	1270.1	1286.9
52.5°	1083.7	1109.4	1157.0	1199.4	1217.4
55°	1007.9	1033.6	1083.7	1127.4	1146.7
57.5°	930.8	956.5	1007.9	1052.9	1076.0
60°	851.0	876.8	930.8	977.0	1000.2
62.5°	768.8	795.8	851.0	898.6	923.0
65°	686.5	712.2	770.1	821.5	840.8
67.5°	604.2	629.9	686.5	737.9	761.1
70°	519.4	548.9	604.2	658.2	678.8
72.5°	430.7	464.1	519.4	575.9	596.5
75°	348.4	380.5	439.7	492.4	515.5
77.5°	267.4	302.1	357.4	411.4	434.5
80°	190.3	223.7	280.3	331.7	356.1
82.5°	120.8	150.4	207.0	253.3	271.3
85°	61.7	87.4	129.8	145.3	154.3
87.5°	18.0	30.9	46.3	57.9	64.3
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	17.97	19.63	18.33	19.94	20.26	18.70	20.36	19.07	20.68	20.99
	3H	19.74	21.24	20.11	21.57	21.93	20.78	22.29	21.16	22.61	22.97
	4H	20.35	21.77	20.75	22.12	22.50	21.65	23.07	22.04	23.41	23.79
	6H	20.76	22.08	21.17	22.44	22.84	22.39	23.71	22.80	24.07	24.46
	8H	20.87	22.13	21.29	22.51	22.91	22.69	23.95	23.11	24.33	24.73
	12H	20.91	22.12	21.34	22.50	22.93	22.88	24.09	23.31	24.47	24.90
4H	2H	18.74	20.16	19.13	20.50	20.88	19.31	20.73	19.70	21.07	21.45
	3H	20.73	21.92	21.14	22.32	22.72	21.62	22.81	22.03	23.21	23.61
	4H	21.47	22.55	21.90	22.96	23.40	22.64	23.72	23.07	24.13	24.57
	6H	22.00	22.95	22.45	23.39	23.84	23.54	24.49	24.00	24.93	25.39
	8H	22.14	23.03	22.60	23.47	23.93	23.91	24.80	24.37	25.24	25.71
	12H	22.22	23.02	22.70	23.50	23.96	24.16	24.97	24.64	25.44	25.91
8H	4H	21.91	22.80	22.37	23.25	23.71	22.94	23.82	23.39	24.27	24.73
	6H	22.58	23.32	23.07	23.81	24.28	23.99	24.74	24.49	25.22	25.70
	8H	22.79	23.45	23.29	23.96	24.44	24.47	25.13	24.97	25.64	26.12
	12H	22.92	23.51	23.43	24.00	24.56	24.82	25.41	25.32	25.90	26.46
12H	4H	22.00	22.80	22.47	23.27	23.74	22.96	23.76	23.44	24.24	24.71
	6H	22.70	23.37	23.21	23.87	24.36	24.04	24.71	24.55	25.22	25.70
	8H	22.98	23.57	23.48	24.06	24.62	24.58	25.17	25.09	25.66	26.22