

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: P1587817

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587817
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

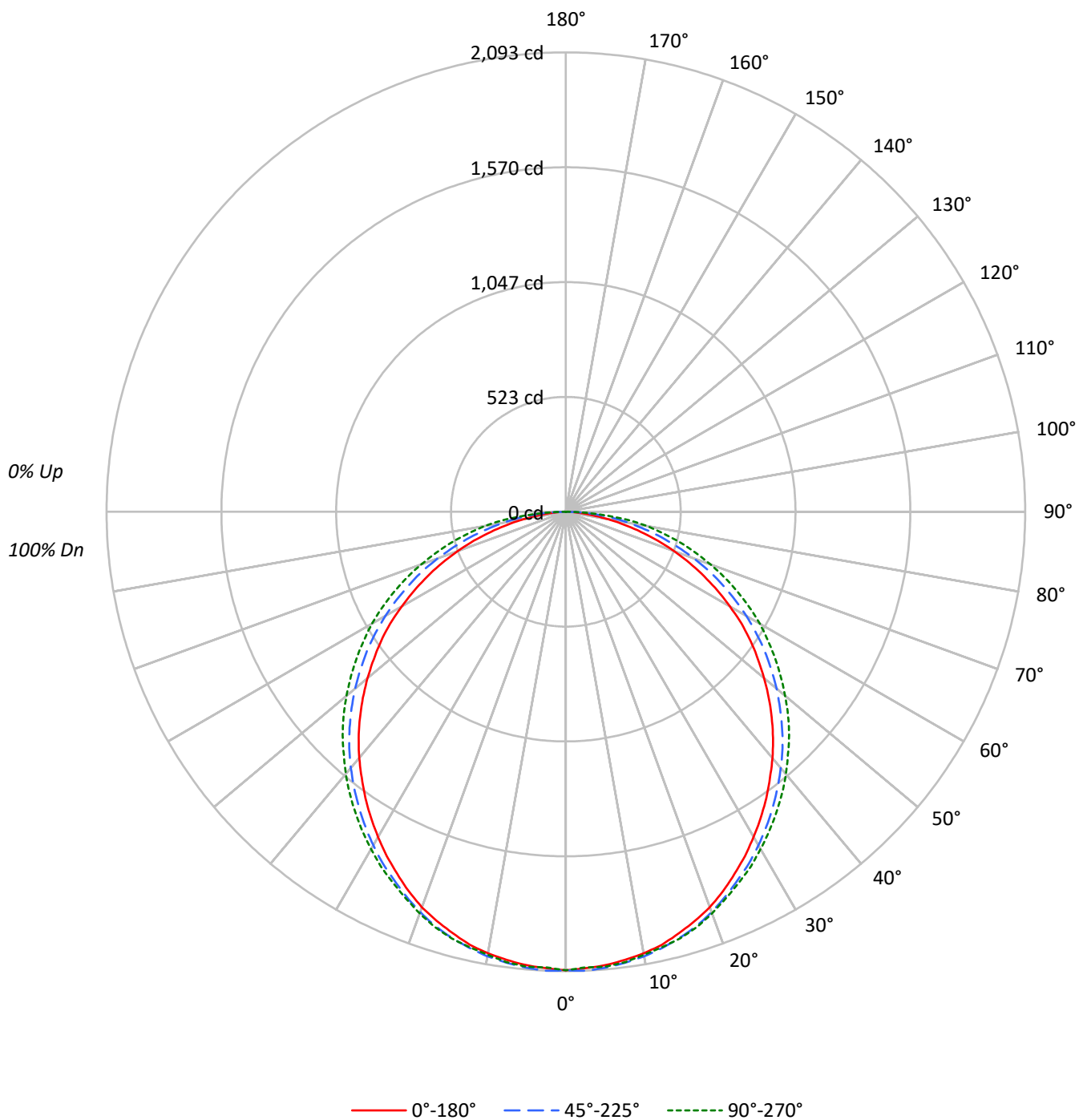
Lumens per Lamp: N/A
Luminaire Lumens: 6097.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	6542	6542	6542
5°	6518	6555	6539
10°	6495	6540	6516
15°	6446	6513	6522
20°	6390	6467	6489
25°	6286	6398	6443
30°	6187	6346	6415
35°	6087	6284	6393
40°	5987	6230	6377
45°	5875	6172	6372
50°	5745	6104	6355
55°	5615	6037	6355
60°	5407	5948	6392
65°	5153	5833	6396
70°	4808	5671	6415
75°	4278	5464	6526
80°	3515	5235	6771
85°	2317	4915	6119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	3.2
10°-20°	565.7	9.3
20°-30°	852.6	14.0
30°-40°	1026.8	16.8
40°-50°	1072.7	17.6
50°-60°	985.5	16.2
60°-70°	776.1	12.7
70°-80°	475.8	7.8
80°-90°	144.3	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°	1615.9	26.5
0°-40°	2642.7	43.3
0°-60°	4700.9	77.1
0°-90°	6097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2089	2089	2089	2089	2089	
5°	2074	2078	2085	2083	2080	197
15°	1988	1996	2009	2017	2012	561
25°	1820	1831	1852	1871	1865	839
35°	1592	1613	1644	1674	1672	996
45°	1327	1355	1394	1432	1439	1023
55°	1028	1058	1106	1154	1164	918
65°	696	732	787	840	863	688
75°	354	395	452	506	539	376
85°	64	96	137	152	170	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.2	2089.2	2089.2	2089.2	2089.2
2.5°	2081.5	2086.6	2093.1	2082.7	2077.6
5°	2073.7	2077.6	2085.3	2082.7	2080.2
7.5°	2059.5	2062.1	2072.4	2072.4	2069.8
10°	2042.7	2047.9	2056.9	2055.6	2049.2
12.5°	2020.8	2024.7	2035.0	2035.0	2031.1
15°	1988.5	1996.3	2009.2	2016.9	2011.8
17.5°	1955.0	1962.7	1979.5	1987.3	1984.7
20°	1917.6	1924.0	1940.8	1952.4	1947.3
22.5°	1871.1	1878.9	1898.2	1911.1	1906.0
25°	1819.5	1831.1	1851.8	1871.1	1864.7
27.5°	1767.9	1780.8	1806.6	1826.0	1823.4
30°	1711.1	1727.9	1755.0	1779.5	1774.3
32.5°	1653.0	1672.4	1700.8	1726.6	1725.3
35°	1592.4	1613.0	1644.0	1673.7	1672.4
37.5°	1527.9	1552.4	1584.6	1616.9	1618.2
40°	1464.6	1487.9	1524.0	1558.8	1560.1
42.5°	1397.5	1422.0	1460.8	1496.9	1498.2
45°	1326.6	1354.9	1393.7	1432.4	1438.8
47.5°	1254.3	1284.0	1324.0	1365.3	1373.0
50°	1179.4	1210.4	1253.0	1296.9	1304.6
52.5°	1103.3	1135.6	1179.4	1223.3	1234.9
55°	1028.5	1058.1	1105.9	1153.6	1164.0
57.5°	949.8	976.9	1028.5	1078.8	1091.7
60°	863.3	896.8	949.8	1000.1	1020.7
62.5°	779.4	815.5	869.7	920.1	943.3
65°	695.5	731.7	787.2	840.1	863.3
67.5°	610.4	647.8	707.2	757.5	783.3
70°	525.2	562.6	619.4	673.6	700.7
72.5°	440.0	480.0	535.5	591.0	618.1
75°	353.6	394.9	451.6	505.8	539.4
77.5°	272.3	312.3	369.1	424.5	452.9
80°	194.9	234.9	290.3	345.8	375.5
82.5°	123.9	161.3	215.5	262.0	289.1
85°	64.5	95.5	136.8	152.3	170.3
87.5°	19.4	37.4	52.9	59.4	73.6
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	18.04	19.70	18.40	20.02	20.33	18.79	20.45	19.15	20.76	21.08
	3H	19.80	21.31	20.18	21.64	22.00	20.88	22.39	21.26	22.71	23.07
	4H	20.43	21.85	20.82	22.20	22.57	21.77	23.19	22.16	23.53	23.91
	6H	20.84	22.16	21.25	22.52	22.91	22.53	23.85	22.94	24.22	24.61
	8H	20.95	22.21	21.37	22.60	22.99	22.84	24.11	23.27	24.50	24.89
	12H	21.00	22.21	21.43	22.59	23.02	23.06	24.27	23.49	24.65	25.08
4H	2H	18.81	20.23	19.21	20.58	20.95	19.39	20.81	19.79	21.16	21.53
	3H	20.80	22.00	21.21	22.40	22.80	21.72	22.92	22.13	23.31	23.71
	4H	21.56	22.64	21.99	23.06	23.49	22.75	23.84	23.18	24.25	24.69
	6H	22.09	23.05	22.55	23.49	23.94	23.68	24.63	24.13	25.07	25.53
	8H	22.24	23.13	22.70	23.57	24.04	24.07	24.96	24.53	25.40	25.86
	12H	22.33	23.13	22.81	23.60	24.07	24.34	25.15	24.82	25.62	26.09
8H	4H	22.01	22.90	22.47	23.34	23.81	23.05	23.94	23.51	24.39	24.85
	6H	22.69	23.43	23.18	23.92	24.39	24.14	24.88	24.63	25.37	25.84
	8H	22.91	23.58	23.41	24.08	24.57	24.62	25.29	25.13	25.80	26.28
	12H	23.05	23.65	23.56	24.14	24.69	25.00	25.59	25.50	26.08	26.64
12H	4H	22.09	22.90	22.57	23.37	23.84	23.08	23.88	23.56	24.36	24.83
	6H	22.81	23.48	23.32	23.99	24.47	24.19	24.86	24.70	25.36	25.85
	8H	23.11	23.70	23.61	24.19	24.75	24.74	25.33	25.25	25.82	26.38