

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: P1587792

Luminaire Tested: 22CZSP-SB-57HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587792
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-57HE-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

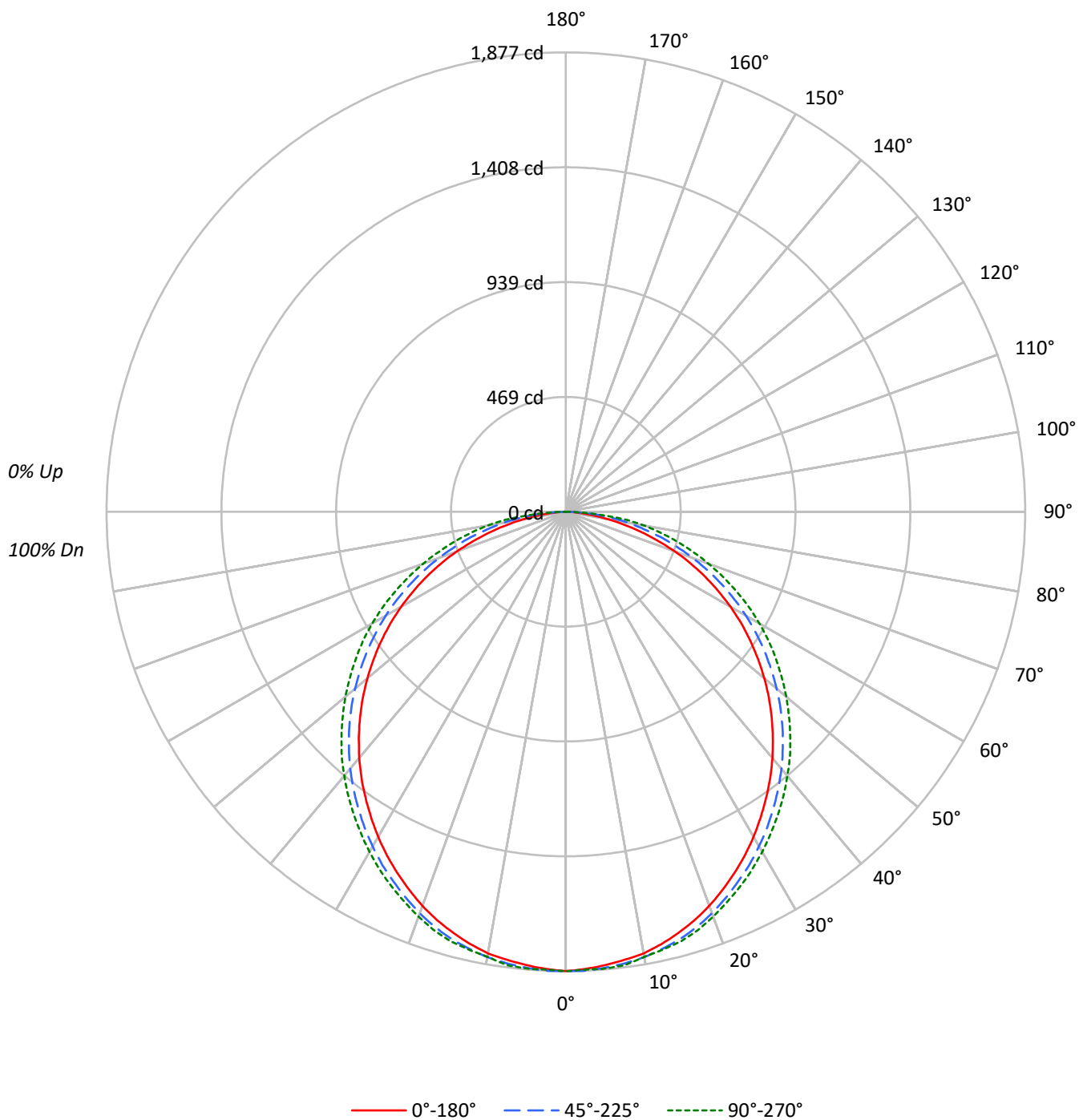
Lumens per Lamp: N/A
Luminaire Lumens: 5460.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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°	5877	5877	5877
5°	5844	5878	5889
10°	5826	5875	5871
15°	5772	5856	5891
20°	5711	5816	5867
25°	5629	5759	5832
30°	5547	5708	5801
35°	5455	5653	5774
40°	5368	5603	5757
45°	5269	5545	5742
50°	5155	5476	5727
55°	5027	5406	5720
60°	4870	5326	5723
65°	4647	5213	5692
70°	4344	5054	5678
75°	3851	4860	5698
80°	3134	4618	5868
85°	2026	4261	5062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.3
10°-20°	508.7	9.3
20°-30°	766.9	14.0
30°-40°	922.8	16.9
40°-50°	962.6	17.6
50°-60°	882.3	16.2
60°-70°	692.8	12.7
70°-80°	421.7	7.7
80°-90°	124.7	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°	1453.2	26.6
0°-40°	2376.0	43.5
0°-60°	4220.8	77.3
0°-90°	5460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1859	1871	1870	1868	1873	177
15°	1781	1798	1806	1809	1817	502
25°	1629	1651	1667	1677	1688	751
35°	1427	1449	1479	1500	1510	893
45°	1190	1214	1252	1282	1297	918
55°	921	944	990	1030	1048	823
65°	627	651	704	750	768	620
75°	318	348	402	450	471	337
85°	56	80	119	133	141	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.0	1877.0	1877.0	1877.0	1877.0
2.5°	1869.9	1879.3	1877.0	1868.7	1872.3
5°	1859.3	1871.1	1869.9	1867.6	1873.4
7.5°	1846.4	1859.3	1860.5	1860.5	1867.6
10°	1832.3	1845.2	1847.6	1844.1	1846.4
12.5°	1808.8	1824.1	1828.8	1828.8	1832.3
15°	1780.6	1798.3	1806.5	1808.8	1817.1
17.5°	1750.1	1768.9	1779.5	1785.3	1792.4
20°	1713.7	1733.7	1745.4	1752.5	1760.7
22.5°	1672.6	1694.9	1707.8	1714.9	1724.3
25°	1629.1	1651.4	1666.7	1677.3	1687.9
27.5°	1583.3	1604.5	1625.6	1638.5	1647.9
30°	1534.0	1556.3	1578.6	1595.1	1604.5
32.5°	1481.1	1504.6	1530.5	1548.1	1558.7
35°	1427.1	1449.4	1478.8	1499.9	1510.5
37.5°	1371.9	1395.4	1425.9	1448.2	1461.2
40°	1313.2	1337.8	1370.7	1395.4	1408.3
42.5°	1252.1	1275.6	1312.0	1340.2	1355.5
45°	1189.8	1214.5	1252.1	1281.5	1296.7
47.5°	1125.2	1148.7	1189.8	1223.9	1236.8
50°	1058.3	1080.6	1124.1	1160.5	1175.7
52.5°	990.2	1013.7	1057.1	1095.9	1112.3
55°	920.9	944.4	990.2	1030.1	1047.7
57.5°	850.4	873.9	920.9	962.0	983.1
60°	777.6	801.1	850.4	892.7	913.8
62.5°	702.4	727.1	777.6	821.0	843.3
65°	627.2	650.7	703.6	750.5	768.2
67.5°	552.0	575.5	627.2	674.2	695.3
70°	474.5	501.5	552.0	601.4	620.2
72.5°	393.5	424.0	474.5	526.2	545.0
75°	318.3	347.7	401.7	449.9	471.0
77.5°	244.3	276.0	326.5	375.9	397.0
80°	173.8	204.4	256.1	303.0	325.4
82.5°	110.4	137.4	189.1	231.4	247.8
85°	56.4	79.9	118.6	132.7	140.9
87.5°	16.4	28.2	42.3	52.9	58.7
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	17.65	19.31	18.02	19.63	19.94	18.39	20.05	18.75	20.36	20.68
	3H	19.42	20.93	19.80	21.25	21.61	20.47	21.97	20.84	22.30	22.66
	4H	20.04	21.46	20.44	21.81	22.18	21.33	22.75	21.73	23.10	23.47
	6H	20.45	21.77	20.86	22.13	22.52	22.08	23.40	22.49	23.76	24.15
	8H	20.55	21.81	20.98	22.20	22.60	22.37	23.63	22.80	24.02	24.42
	12H	20.60	21.81	21.03	22.19	22.62	22.57	23.77	22.99	24.16	24.58
4H	2H	18.42	19.84	18.82	20.19	20.56	18.99	20.41	19.39	20.76	21.13
	3H	20.41	21.61	20.82	22.00	22.40	21.31	22.50	21.71	22.90	23.30
	4H	21.16	22.24	21.59	22.65	23.09	22.32	23.41	22.76	23.82	24.26
	6H	21.68	22.63	22.14	23.07	23.53	23.23	24.18	23.68	24.62	25.07
	8H	21.83	22.71	22.28	23.16	23.62	23.60	24.49	24.06	24.93	25.39
	12H	21.91	22.71	22.39	23.18	23.65	23.85	24.65	24.33	25.13	25.59
8H	4H	21.60	22.49	22.06	22.93	23.40	22.62	23.51	23.08	23.95	24.42
	6H	22.26	23.01	22.76	23.49	23.97	23.68	24.42	24.17	24.91	25.38
	8H	22.47	23.14	22.98	23.64	24.13	24.15	24.82	24.66	25.32	25.81
	12H	22.61	23.20	23.11	23.69	24.25	24.50	25.09	25.01	25.58	26.14
12H	4H	21.68	22.48	22.16	22.96	23.42	22.65	23.45	23.13	23.92	24.39
	6H	22.39	23.05	22.89	23.56	24.04	23.73	24.40	24.24	24.90	25.39
	8H	22.66	23.25	23.17	23.74	24.30	24.27	24.86	24.77	25.35	25.91