

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: P1586760

Luminaire Tested: 22CZSP-A-57HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-57HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

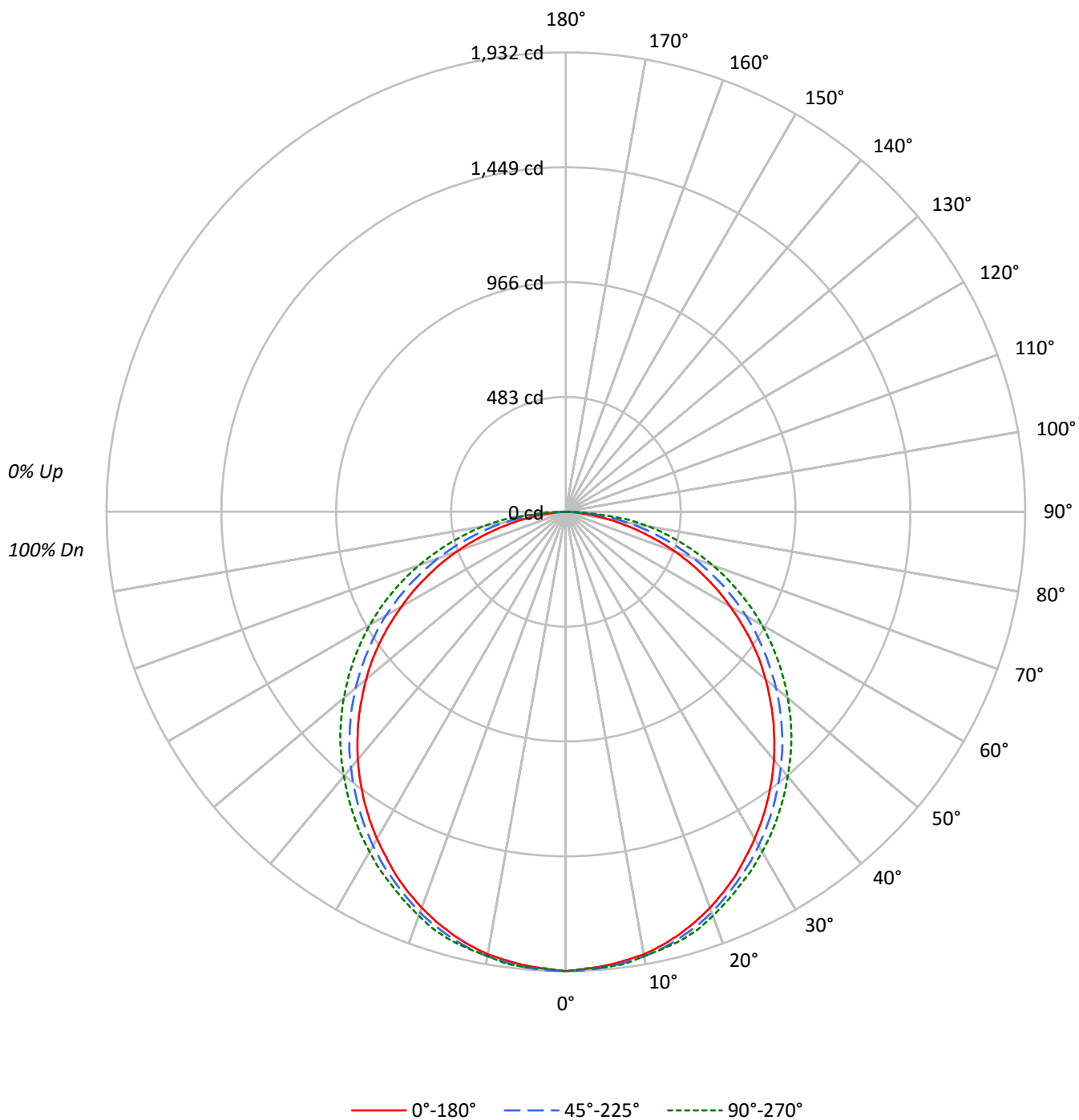
Lumens per Lamp: N/A
Luminaire Lumens: 5641.0 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	69
3	89	79	70	64	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°	6050	6050	6050
5°	6023	6046	6042
10°	6010	6037	6033
15°	5967	6015	6051
20°	5906	5977	6026
25°	5833	5915	5987
30°	5742	5863	5970
35°	5659	5806	5952
40°	5566	5748	5935
45°	5459	5690	5942
50°	5343	5620	5939
55°	5203	5541	5947
60°	5008	5480	5961
65°	4778	5374	5979
70°	4454	5224	6006
75°	3968	5017	6065
80°	3282	4777	6362
85°	2134	4315	5558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	3.2
10°-20°	523.2	9.3
20°-30°	789.1	14.0
30°-40°	950.5	16.8
40°-50°	992.7	17.6
50°-60°	911.6	16.2
60°-70°	718.0	12.7
70°-80°	440.5	7.8
80°-90°	132.6	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°	1495.1	26.5
0°-40°	2445.6	43.4
0°-60°	4349.9	77.1
0°-90°	5641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1916	1919	1924	1930	1922	182
15°	1841	1844	1855	1867	1867	519
25°	1688	1692	1712	1733	1733	777
35°	1480	1488	1519	1550	1557	926
45°	1233	1246	1285	1329	1342	951
55°	953	970	1015	1072	1089	851
65°	645	667	725	786	807	638
75°	328	354	415	480	501	348
85°	59	82	120	152	155	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1932.2	1932.2	1932.2	1932.2	1932.2
2.5°	1924.8	1928.5	1929.7	1931.0	1922.3
5°	1916.1	1918.6	1923.5	1929.7	1922.3
7.5°	1903.7	1906.2	1912.4	1921.1	1917.3
10°	1890.1	1891.3	1898.8	1905.0	1897.5
12.5°	1867.8	1871.5	1880.2	1885.2	1882.7
15°	1840.6	1844.3	1855.4	1866.6	1866.6
17.5°	1808.4	1813.4	1827.0	1841.8	1843.1
20°	1772.5	1776.2	1793.6	1808.4	1808.4
22.5°	1731.7	1736.6	1754.0	1770.0	1772.5
25°	1688.3	1692.1	1711.9	1732.9	1732.9
27.5°	1637.6	1645.0	1669.8	1690.8	1695.8
30°	1588.1	1594.3	1621.5	1647.5	1651.2
32.5°	1536.1	1543.5	1572.0	1600.5	1606.7
35°	1480.4	1487.8	1518.8	1549.7	1557.1
37.5°	1422.2	1430.9	1463.1	1499.0	1506.4
40°	1361.6	1371.5	1406.1	1444.5	1451.9
42.5°	1297.2	1310.8	1348.0	1387.6	1398.7
45°	1232.8	1246.5	1284.8	1329.4	1341.8
47.5°	1164.8	1180.9	1220.5	1267.5	1281.1
50°	1096.7	1112.8	1153.6	1204.4	1219.2
52.5°	1027.4	1043.5	1085.5	1138.8	1154.9
55°	953.1	970.4	1015.0	1071.9	1089.3
57.5°	876.4	898.6	945.7	1003.8	1021.2
60°	799.6	821.9	875.1	932.1	951.9
62.5°	724.1	745.2	799.6	860.3	881.3
65°	644.9	667.2	725.3	786.0	807.0
67.5°	566.9	589.2	647.4	710.5	732.8
70°	486.5	511.2	570.6	633.7	656.0
72.5°	406.0	432.0	492.6	557.0	578.0
75°	328.0	354.0	414.7	480.3	501.3
77.5°	251.3	279.7	339.2	406.0	425.8
80°	182.0	209.2	264.9	330.5	352.8
82.5°	116.4	139.9	195.6	257.5	273.6
85°	59.4	81.7	120.1	152.2	154.7
87.5°	18.6	26.0	39.6	59.4	60.7
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	17.73	19.39	18.10	19.71	20.02	18.56	20.22	18.93	20.54	20.85
	3H	19.49	21.00	19.86	21.32	21.68	20.68	22.19	21.06	22.51	22.87
	4H	20.11	21.53	20.50	21.88	22.25	21.57	22.99	21.97	23.34	23.71
	6H	20.52	21.84	20.93	22.20	22.59	22.35	23.67	22.76	24.03	24.42
	8H	20.63	21.89	21.05	22.28	22.67	22.67	23.93	23.09	24.32	24.72
	12H	20.68	21.89	21.11	22.27	22.70	22.88	24.09	23.31	24.47	24.90
4H	2H	18.50	19.93	18.90	20.27	20.65	19.15	20.57	19.55	20.92	21.29
	3H	20.48	21.68	20.89	22.08	22.47	21.51	22.70	21.91	23.10	23.50
	4H	21.22	22.30	21.65	22.72	23.15	22.56	23.64	22.99	24.06	24.49
	6H	21.75	22.70	22.20	23.14	23.59	23.51	24.46	23.96	24.90	25.36
	8H	21.89	22.79	22.35	23.23	23.69	23.91	24.80	24.37	25.24	25.70
	12H	21.98	22.78	22.46	23.25	23.72	24.18	24.99	24.66	25.46	25.93
8H	4H	21.68	22.57	22.14	23.01	23.47	22.85	23.74	23.31	24.18	24.64
	6H	22.34	23.08	22.83	23.57	24.04	23.96	24.70	24.45	25.19	25.66
	8H	22.55	23.22	23.06	23.72	24.21	24.47	25.14	24.98	25.64	26.13
	12H	22.69	23.28	23.19	23.77	24.33	24.86	25.45	25.36	25.94	26.50
12H	4H	21.77	22.57	22.25	23.04	23.51	22.87	23.67	23.35	24.15	24.62
	6H	22.47	23.14	22.98	23.64	24.13	24.01	24.68	24.51	25.18	25.66
	8H	22.75	23.34	23.25	23.83	24.39	24.58	25.18	25.09	25.67	26.22