

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: P1586514

Luminaire Tested: 22CZSP-57HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586514
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-57HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5700 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

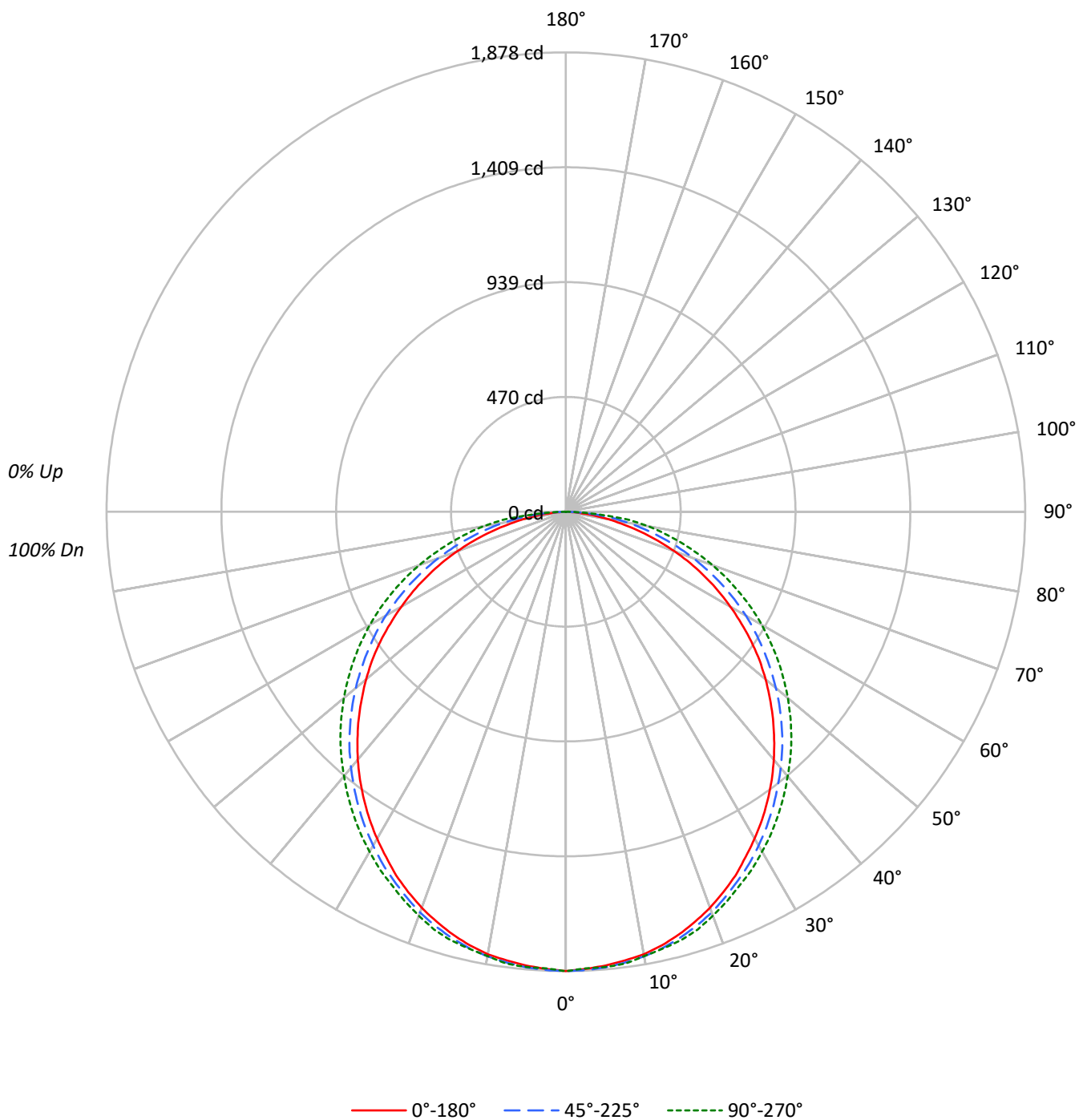
Lumens per Lamp: N/A
Luminaire Lumens: 5482.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5880	5880	5880
5°	5853	5876	5872
10°	5840	5867	5864
15°	5799	5846	5881
20°	5740	5808	5856
25°	5669	5748	5819
30°	5580	5698	5802
35°	5500	5642	5785
40°	5409	5586	5768
45°	5306	5529	5774
50°	5192	5461	5772
55°	5056	5385	5779
60°	4867	5326	5793
65°	4643	5223	5811
70°	4328	5077	5837
75°	3857	4876	5894
80°	3188	4642	6182
85°	2073	4193	5404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.2
10°-20°	508.5	9.3
20°-30°	766.9	14.0
30°-40°	923.7	16.8
40°-50°	964.7	17.6
50°-60°	885.9	16.2
60°-70°	697.8	12.7
70°-80°	428.1	7.8
80°-90°	128.8	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°	1453.0	26.5
0°-40°	2376.7	43.4
0°-60°	4227.3	77.1
0°-90°	5482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1862	1864	1869	1875	1868	177
15°	1789	1792	1803	1814	1814	504
25°	1641	1644	1664	1684	1684	755
35°	1439	1446	1476	1506	1513	900
45°	1198	1211	1249	1292	1304	924
55°	926	943	986	1042	1059	827
65°	627	648	705	764	784	620
75°	319	344	403	467	487	338
85°	58	79	117	148	150	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.7	1877.7	1877.7	1877.7	1877.7
2.5°	1870.5	1874.1	1875.3	1876.5	1868.1
5°	1862.1	1864.5	1869.3	1875.3	1868.1
7.5°	1850.1	1852.5	1858.5	1866.9	1863.3
10°	1836.8	1838.0	1845.3	1851.3	1844.1
12.5°	1815.2	1818.8	1827.2	1832.0	1829.6
15°	1788.7	1792.3	1803.2	1814.0	1814.0
17.5°	1757.4	1762.3	1775.5	1789.9	1791.1
20°	1722.6	1726.2	1743.0	1757.4	1757.4
22.5°	1682.9	1687.7	1704.5	1720.2	1722.6
25°	1640.8	1644.4	1663.6	1684.1	1684.1
27.5°	1591.4	1598.7	1622.7	1643.2	1648.0
30°	1543.3	1549.3	1575.8	1601.1	1604.7
32.5°	1492.8	1500.0	1527.7	1555.4	1561.4
35°	1438.7	1445.9	1476.0	1506.0	1513.3
37.5°	1382.1	1390.6	1421.8	1456.7	1463.9
40°	1323.2	1332.8	1366.5	1403.8	1411.0
42.5°	1260.6	1273.9	1310.0	1348.5	1359.3
45°	1198.1	1211.3	1248.6	1291.9	1303.9
47.5°	1131.9	1147.6	1186.1	1231.8	1245.0
50°	1065.8	1081.4	1121.1	1170.4	1184.9
52.5°	998.4	1014.0	1054.9	1106.7	1122.3
55°	926.2	943.1	986.4	1041.7	1058.6
57.5°	851.7	873.3	919.0	975.6	992.4
60°	777.1	798.7	850.5	905.8	925.0
62.5°	703.7	724.1	777.1	836.0	856.5
65°	626.7	648.4	704.9	763.8	784.3
67.5°	550.9	572.6	629.1	690.5	712.1
70°	472.7	496.8	554.5	615.9	637.5
72.5°	394.6	419.8	478.8	541.3	561.8
75°	318.8	344.0	403.0	466.7	487.2
77.5°	244.2	271.9	329.6	394.6	413.8
80°	176.8	203.3	257.4	321.2	342.8
82.5°	113.1	135.9	190.1	250.2	265.8
85°	57.7	79.4	116.7	148.0	150.4
87.5°	18.0	25.3	38.5	57.7	58.9
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	17.63	19.30	18.00	19.61	19.92	18.46	20.13	18.83	20.44	20.75
	3H	19.39	20.90	19.76	21.22	21.58	20.58	22.09	20.96	22.41	22.77
	4H	20.01	21.43	20.40	21.78	22.15	21.47	22.89	21.87	23.24	23.61
	6H	20.42	21.74	20.83	22.10	22.49	22.25	23.57	22.66	23.93	24.32
	8H	20.53	21.79	20.95	22.18	22.57	22.57	23.83	22.99	24.22	24.62
	12H	20.58	21.79	21.01	22.17	22.60	22.78	23.99	23.21	24.37	24.80
4H	2H	18.40	19.83	18.80	20.17	20.55	19.05	20.47	19.45	20.82	21.20
	3H	20.38	21.58	20.79	21.98	22.38	21.41	22.60	21.82	23.00	23.40
	4H	21.12	22.21	21.55	22.62	23.05	22.46	23.54	22.89	23.96	24.39
	6H	21.65	22.60	22.10	23.04	23.49	23.41	24.36	23.86	24.80	25.26
	8H	21.79	22.69	22.25	23.13	23.59	23.81	24.70	24.27	25.14	25.61
	12H	21.88	22.68	22.36	23.16	23.62	24.08	24.89	24.56	25.36	25.83
8H	4H	21.58	22.47	22.04	22.91	23.38	22.75	23.64	23.21	24.08	24.54
	6H	22.24	22.98	22.73	23.47	23.94	23.86	24.60	24.35	25.09	25.56
	8H	22.45	23.12	22.96	23.62	24.11	24.37	25.04	24.88	25.54	26.03
	12H	22.59	23.18	23.09	23.67	24.23	24.76	25.35	25.26	25.84	26.40
12H	4H	21.67	22.47	22.15	22.95	23.41	22.77	23.58	23.25	24.05	24.52
	6H	22.37	23.04	22.88	23.55	24.03	23.91	24.58	24.41	25.08	25.57
	8H	22.65	23.24	23.15	23.73	24.29	24.48	25.08	24.99	25.57	26.12