

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: P1586756

Luminaire Tested: 22CZSP-A-57HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586756
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

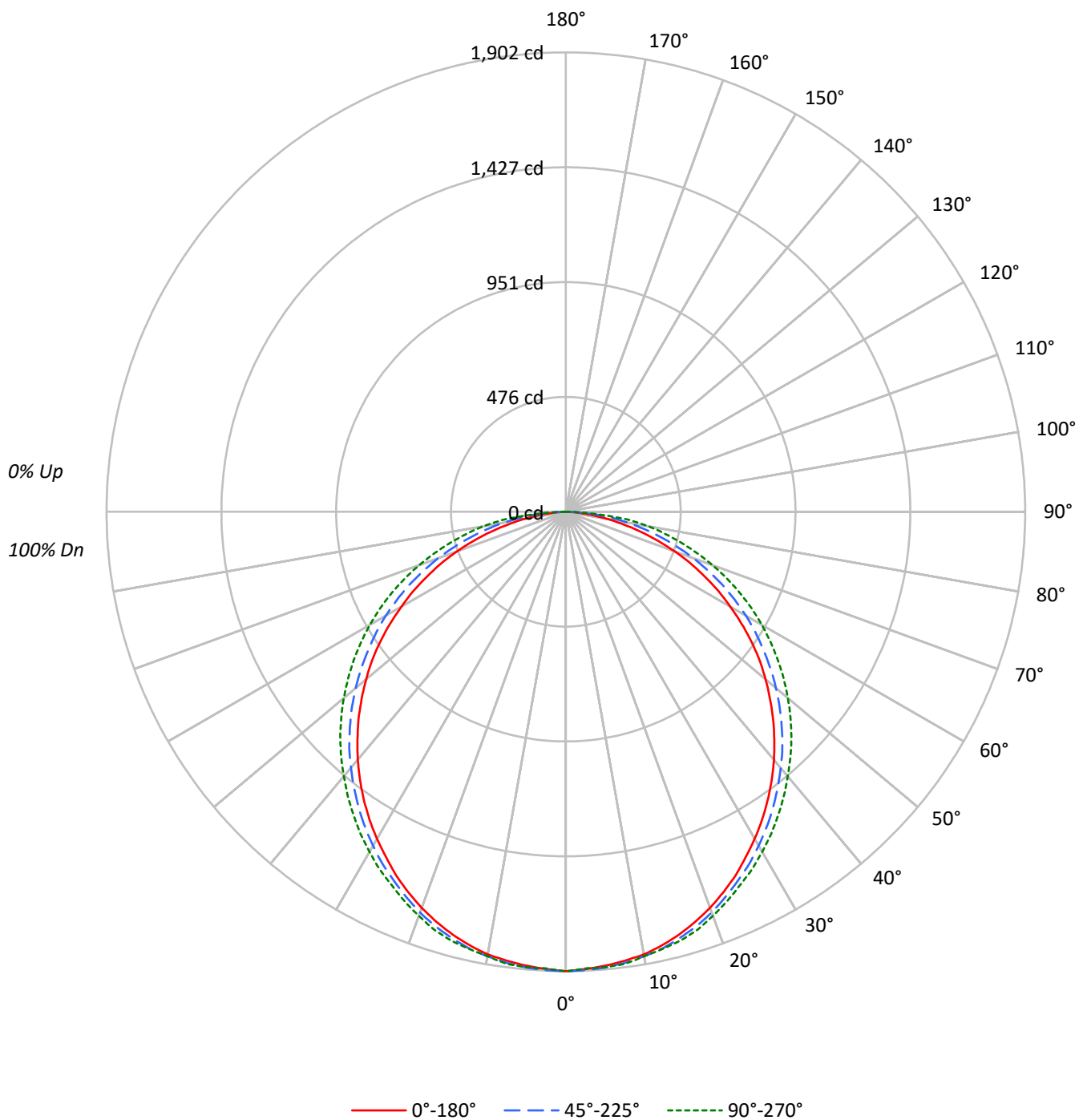
Lumens per Lamp: N/A
Luminaire Lumens: 5554.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5957	5957	5957
5°	5930	5953	5949
10°	5917	5944	5941
15°	5875	5922	5958
20°	5816	5884	5933
25°	5743	5823	5895
30°	5654	5773	5878
35°	5572	5716	5860
40°	5480	5659	5843
45°	5375	5602	5850
50°	5260	5533	5848
55°	5123	5455	5855
60°	4931	5396	5869
65°	4704	5292	5887
70°	4385	5143	5913
75°	3908	4940	5972
80°	3230	4703	6263
85°	2102	4247	5472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	3.2
10°-20°	515.2	9.3
20°-30°	777.0	14.0
30°-40°	935.8	16.8
40°-50°	977.3	17.6
50°-60°	897.6	16.2
60°-70°	707.0	12.7
70°-80°	433.7	7.8
80°-90°	130.5	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°	1472.1	26.5
0°-40°	2407.9	43.4
0°-60°	4282.8	77.1
0°-90°	5554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1887	1889	1894	1900	1893	179
15°	1812	1816	1827	1838	1838	511
25°	1662	1666	1686	1706	1706	765
35°	1458	1465	1495	1526	1533	912
45°	1214	1227	1265	1309	1321	936
55°	938	956	999	1055	1072	838
65°	635	657	714	774	795	628
75°	323	348	408	473	494	342
85°	58	80	118	150	152	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1895.1	1898.7	1900.0	1901.2	1892.6
5°	1886.6	1889.0	1893.9	1900.0	1892.6
7.5°	1874.4	1876.8	1882.9	1891.4	1887.8
10°	1861.0	1862.2	1869.5	1875.6	1868.3
12.5°	1839.0	1842.7	1851.2	1856.1	1853.6
15°	1812.2	1815.9	1826.8	1837.8	1837.8
17.5°	1780.5	1785.4	1798.8	1813.4	1814.6
20°	1745.2	1748.8	1765.9	1780.5	1780.5
22.5°	1705.0	1709.8	1726.9	1742.7	1745.2
25°	1662.3	1666.0	1685.5	1706.2	1706.2
27.5°	1612.3	1619.7	1644.0	1664.7	1669.6
30°	1563.6	1569.7	1596.5	1622.1	1625.7
32.5°	1512.4	1519.7	1547.8	1575.8	1581.9
35°	1457.6	1464.9	1495.3	1525.8	1533.1
37.5°	1400.3	1408.8	1440.5	1475.8	1483.2
40°	1340.6	1350.3	1384.4	1422.2	1429.5
42.5°	1277.2	1290.6	1327.2	1366.2	1377.1
45°	1213.8	1227.2	1265.0	1308.9	1321.1
47.5°	1146.8	1162.6	1201.6	1248.0	1261.4
50°	1079.8	1095.6	1135.8	1185.8	1200.4
52.5°	1011.5	1027.4	1068.8	1121.2	1137.0
55°	938.4	955.5	999.3	1055.4	1072.5
57.5°	862.8	884.8	931.1	988.4	1005.4
60°	787.3	809.2	861.6	917.7	937.2
62.5°	712.9	733.7	787.3	847.0	867.7
65°	634.9	656.9	714.2	773.9	794.6
67.5°	558.2	580.1	637.4	699.5	721.5
70°	478.9	503.3	561.8	624.0	645.9
72.5°	399.7	425.3	485.0	548.4	569.1
75°	323.0	348.5	408.3	472.9	493.6
77.5°	247.4	275.4	333.9	399.7	419.2
80°	179.1	206.0	260.8	325.4	347.3
82.5°	114.6	137.7	192.6	253.5	269.3
85°	58.5	80.4	118.2	149.9	152.3
87.5°	18.3	25.6	39.0	58.5	59.7
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	17.68	19.34	18.04	19.65	19.97	18.51	20.17	18.87	20.49	20.80
	3H	19.43	20.94	19.81	21.27	21.63	20.63	22.13	21.00	22.46	22.82
	4H	20.05	21.47	20.45	21.82	22.20	21.51	22.94	21.91	23.28	23.66
	6H	20.46	21.78	20.87	22.15	22.54	22.30	23.62	22.71	23.98	24.37
	8H	20.57	21.83	20.99	22.22	22.62	22.61	23.88	23.04	24.27	24.66
	12H	20.62	21.83	21.05	22.21	22.64	22.83	24.04	23.26	24.42	24.85
4H	2H	18.45	19.87	18.85	20.22	20.59	19.10	20.52	19.49	20.87	21.24
	3H	20.43	21.63	20.84	22.02	22.42	21.45	22.65	21.86	23.05	23.45
	4H	21.16	22.25	21.59	22.66	23.10	22.50	23.59	22.93	24.00	24.44
	6H	21.69	22.64	22.15	23.08	23.54	23.46	24.41	23.91	24.85	25.30
	8H	21.84	22.73	22.30	23.17	23.64	23.85	24.75	24.31	25.19	25.65
	12H	21.92	22.73	22.40	23.20	23.67	24.13	24.93	24.61	25.41	25.88
8H	4H	21.62	22.52	22.08	22.96	23.42	22.79	23.68	23.25	24.13	24.59
	6H	22.28	23.03	22.78	23.51	23.99	23.90	24.65	24.40	25.14	25.61
	8H	22.50	23.16	23.00	23.67	24.15	24.42	25.08	24.92	25.59	26.07
	12H	22.63	23.23	23.14	23.72	24.27	24.80	25.39	25.31	25.88	26.44
12H	4H	21.71	22.52	22.19	22.99	23.46	22.82	23.62	23.30	24.09	24.56
	6H	22.42	23.09	22.92	23.59	24.08	23.95	24.62	24.46	25.13	25.61
	8H	22.69	23.29	23.20	23.78	24.33	24.53	25.12	25.03	25.61	26.17