

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: P1586519

Luminaire Tested: 22CZSP-57HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-57HE-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

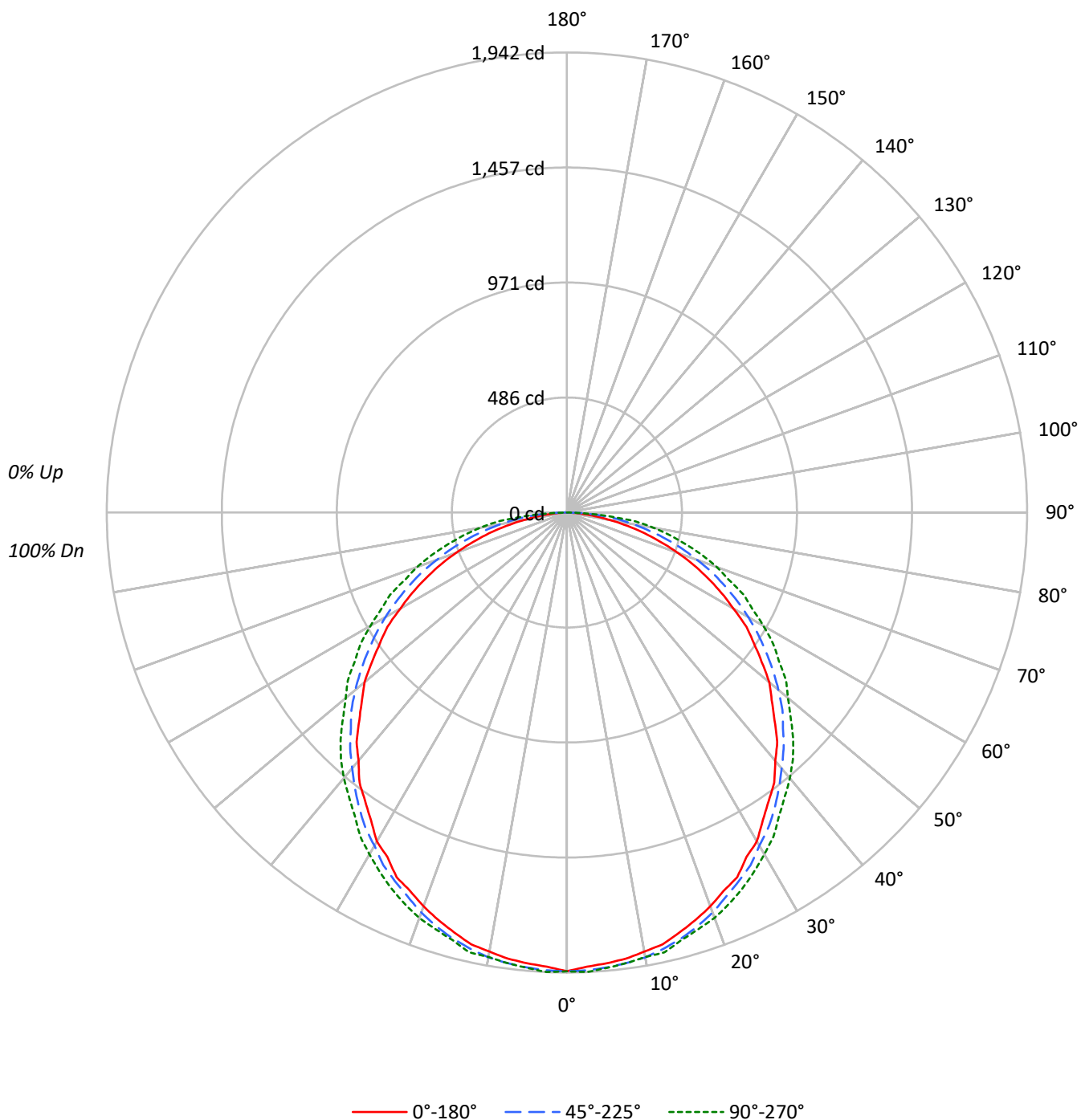
Lumens per Lamp: N/A
Luminaire Lumens: 5704.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	50	30	10
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68		
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57		
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	49		
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42		
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36		
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6064	6064	6064
5°	6005	6060	6065
10°	5986	6063	6058
15°	5950	6035	6057
20°	5895	5988	6069
25°	5871	5931	6052
30°	5797	5873	6024
35°	5675	5836	5969
40°	5591	5762	5984
45°	5485	5709	5980
50°	5431	5677	5932
55°	5257	5601	5963
60°	5081	5539	5998
65°	4861	5455	6102
70°	4569	5351	6165
75°	4116	5256	6290
80°	3367	5159	6701
85°	2195	5141	6269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7031 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	3.2
10°-20°	524.2	9.2
20°-30°	792.2	13.9
30°-40°	955.4	16.8
40°-50°	998.8	17.5
50°-60°	921.1	16.1
60°-70°	729.8	12.8
70°-80°	456.3	8.0
80°-90°	143.1	2.5
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°	1499.4	26.3
0°-40°	2454.8	43.0
0°-60°	4374.7	76.7
0°-90°	5704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1910	1919	1928	1935	1930	182
15°	1835	1844	1862	1874	1868	518
25°	1699	1694	1717	1741	1752	779
35°	1485	1502	1527	1553	1562	931
45°	1239	1256	1289	1322	1350	959
55°	963	986	1026	1082	1092	863
65°	656	684	736	794	824	650
75°	340	368	434	496	520	358
85°	61	87	143	168	174	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.6	1936.6	1936.6	1936.6	1936.6
2.5°	1919.1	1927.8	1934.8	1933.1	1941.8
5°	1910.4	1919.1	1927.8	1934.8	1929.6
7.5°	1899.9	1908.6	1919.1	1929.6	1919.1
10°	1882.5	1887.7	1906.9	1908.6	1905.2
12.5°	1866.8	1872.0	1886.0	1898.2	1901.7
15°	1835.4	1844.1	1861.5	1873.8	1868.5
17.5°	1804.0	1816.2	1831.9	1844.1	1844.1
20°	1769.1	1777.8	1797.0	1805.7	1821.4
22.5°	1728.9	1739.4	1755.1	1779.5	1788.3
25°	1699.3	1694.1	1716.7	1741.2	1751.6
27.5°	1640.0	1646.9	1678.4	1701.0	1709.8
30°	1603.3	1606.8	1624.3	1655.7	1666.1
32.5°	1538.8	1549.2	1580.7	1603.3	1622.5
35°	1484.7	1502.1	1526.6	1552.7	1561.5
37.5°	1437.6	1441.1	1469.0	1503.9	1510.9
40°	1367.8	1388.7	1409.7	1453.3	1463.8
42.5°	1313.7	1324.2	1353.8	1395.7	1411.4
45°	1238.7	1256.1	1289.3	1322.4	1350.4
47.5°	1172.4	1189.9	1233.5	1275.3	1280.6
50°	1114.8	1121.8	1165.4	1212.5	1217.8
52.5°	1036.3	1053.8	1095.6	1148.0	1165.4
55°	963.0	985.7	1025.9	1081.7	1092.2
57.5°	898.5	909.0	956.1	1011.9	1032.8
60°	811.3	840.9	884.5	938.6	957.8
62.5°	736.2	764.2	811.3	861.9	882.8
65°	656.0	683.9	736.2	793.8	823.5
67.5°	579.2	601.9	664.7	724.0	738.0
70°	499.0	525.1	584.5	645.5	673.4
72.5°	415.2	444.9	511.2	568.8	598.4
75°	340.2	368.1	434.4	495.5	519.9
77.5°	261.7	293.1	357.7	418.7	446.6
80°	186.7	218.1	286.1	347.2	371.6
82.5°	120.4	153.5	218.1	272.2	293.1
85°	61.1	87.2	143.1	167.5	174.5
87.5°	19.2	31.4	48.9	55.8	55.8
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	17.79	19.45	18.15	19.77	20.08	18.58	20.24	18.94	20.56	20.87
	3H	19.57	21.08	19.95	21.41	21.77	20.72	22.23	21.10	22.56	22.92
	4H	20.21	21.63	20.60	21.98	22.36	21.64	23.07	22.04	23.42	23.79
	6H	20.63	21.96	21.04	22.32	22.71	22.47	23.80	22.88	24.16	24.55
	8H	20.75	22.01	21.17	22.40	22.80	22.82	24.08	23.24	24.47	24.87
	12H	20.80	22.02	21.23	22.40	22.83	23.06	24.27	23.49	24.66	25.08
4H	2H	18.56	19.99	18.96	20.33	20.71	19.17	20.60	19.57	20.95	21.32
	3H	20.57	21.77	20.98	22.17	22.57	21.56	22.76	21.97	23.16	23.56
	4H	21.33	22.42	21.76	22.84	23.27	22.65	23.74	23.08	24.15	24.59
	6H	21.88	22.84	22.33	23.28	23.73	23.64	24.60	24.10	25.04	25.50
	8H	22.03	22.93	22.49	23.37	23.84	24.07	24.97	24.53	25.41	25.87
	12H	22.12	22.93	22.60	23.40	23.87	24.38	25.19	24.86	25.67	26.14
8H	4H	21.81	22.71	22.27	23.15	23.61	22.95	23.85	23.41	24.29	24.76
	6H	22.50	23.25	22.99	23.74	24.21	24.12	24.87	24.61	25.35	25.83
	8H	22.73	23.40	23.24	23.91	24.39	24.66	25.34	25.17	25.84	26.33
	12H	22.88	23.47	23.38	23.96	24.52	25.09	25.69	25.60	26.18	26.74
12H	4H	21.91	22.72	22.39	23.19	23.66	22.98	23.79	23.46	24.27	24.73
	6H	22.65	23.32	23.16	23.83	24.31	24.17	24.85	24.68	25.35	25.84
	8H	22.95	23.55	23.46	24.04	24.60	24.79	25.39	25.30	25.88	26.44