

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: P1586753

Luminaire Tested: 22CZSP-A-57HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586753
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-A-57HE-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5700 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

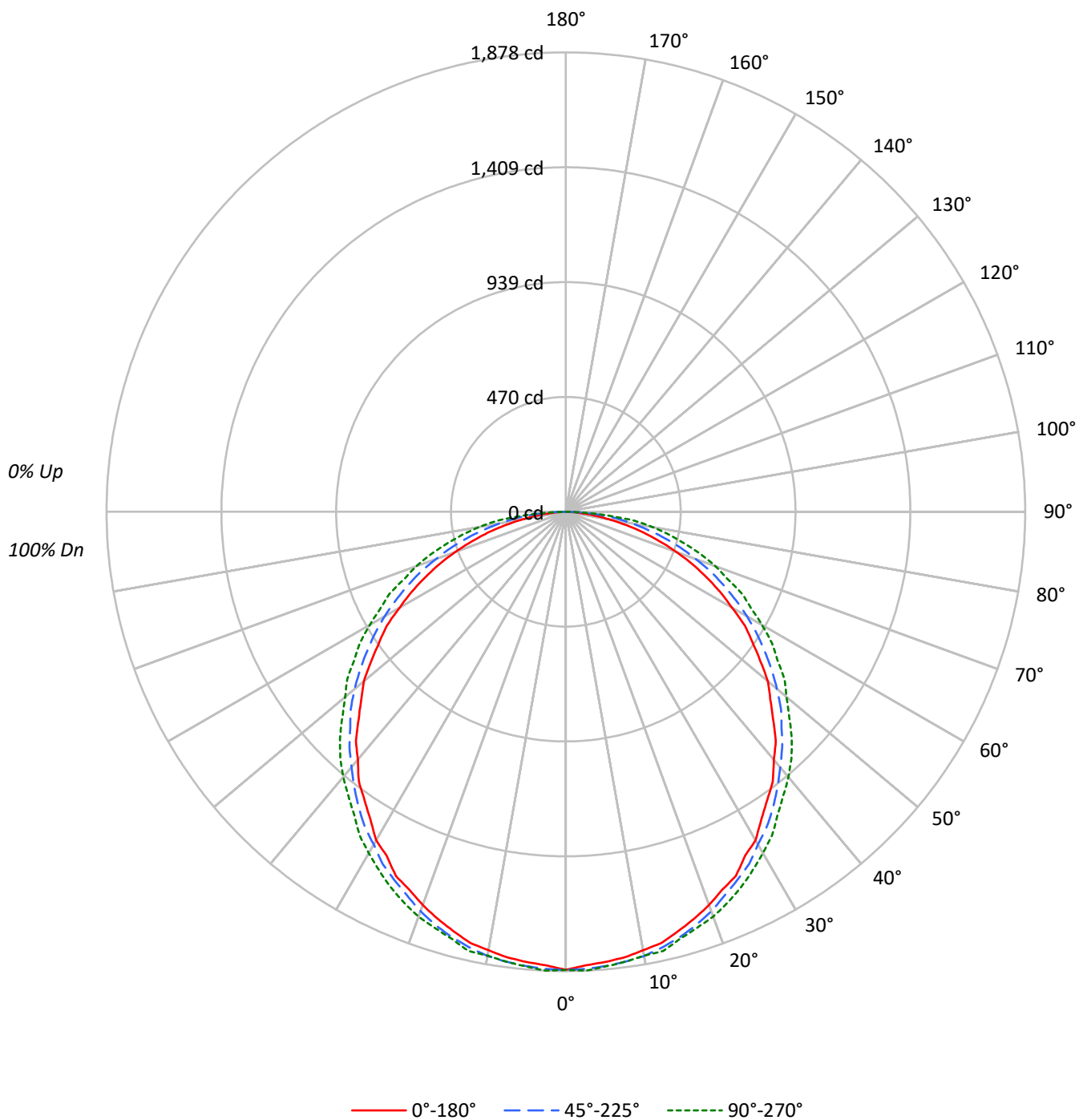
Lumens per Lamp: N/A
Luminaire Lumens: 5516.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	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°	5864	5864	5864
5°	5807	5860	5865
10°	5788	5864	5858
15°	5754	5836	5858
20°	5701	5791	5869
25°	5678	5736	5852
30°	5606	5679	5826
35°	5489	5643	5772
40°	5407	5572	5786
45°	5305	5521	5783
50°	5252	5490	5737
55°	5084	5416	5766
60°	4913	5357	5800
65°	4700	5275	5900
70°	4417	5175	5962
75°	3980	5083	6083
80°	3255	4990	6481
85°	2123	4969	6061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	3.2
10°-20°	506.9	9.2
20°-30°	766.1	13.9
30°-40°	924.0	16.8
40°-50°	965.9	17.5
50°-60°	890.7	16.1
60°-70°	705.8	12.8
70°-80°	441.3	8.0
80°-90°	138.4	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°	1450.0	26.3
0°-40°	2373.9	43.0
0°-60°	4230.5	76.7
0°-90°	5516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1847	1856	1864	1871	1866	176
15°	1775	1783	1800	1812	1807	501
25°	1643	1638	1660	1684	1694	754
35°	1436	1453	1476	1502	1510	901
45°	1198	1215	1247	1279	1306	927
55°	931	953	992	1046	1056	835
65°	634	661	712	768	796	628
75°	329	356	420	479	503	347
85°	59	84	138	162	169	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.7	1872.7	1872.7	1872.7	1872.7
2.5°	1855.9	1864.3	1871.0	1869.4	1877.8
5°	1847.4	1855.9	1864.3	1871.0	1866.0
7.5°	1837.3	1845.7	1855.9	1866.0	1855.9
10°	1820.4	1825.5	1844.1	1845.7	1842.4
12.5°	1805.2	1810.3	1823.8	1835.6	1839.0
15°	1774.9	1783.3	1800.2	1812.0	1806.9
17.5°	1744.5	1756.3	1771.5	1783.3	1783.3
20°	1710.8	1719.2	1737.8	1746.2	1761.4
22.5°	1672.0	1682.1	1697.3	1720.9	1729.3
25°	1643.3	1638.2	1660.2	1683.8	1693.9
27.5°	1585.9	1592.7	1623.0	1645.0	1653.4
30°	1550.5	1553.9	1570.7	1601.1	1611.2
32.5°	1488.1	1498.2	1528.6	1550.5	1569.0
35°	1435.8	1452.6	1476.3	1501.6	1510.0
37.5°	1390.2	1393.6	1420.6	1454.3	1461.1
40°	1322.7	1343.0	1363.2	1405.4	1415.5
42.5°	1270.4	1280.5	1309.2	1349.7	1364.9
45°	1197.9	1214.7	1246.8	1278.9	1305.9
47.5°	1133.8	1150.6	1192.8	1233.3	1238.4
50°	1078.1	1084.8	1127.0	1172.6	1177.6
52.5°	1002.2	1019.0	1059.5	1110.1	1127.0
55°	931.3	953.2	992.0	1046.0	1056.2
57.5°	868.9	879.0	924.6	978.5	998.8
60°	784.5	813.2	855.4	907.7	926.2
62.5°	712.0	739.0	784.5	833.5	853.7
65°	634.4	661.4	712.0	767.7	796.3
67.5°	560.1	582.1	642.8	700.2	713.7
70°	482.5	507.8	565.2	624.2	651.2
72.5°	401.5	430.2	494.3	550.0	578.7
75°	329.0	356.0	420.1	479.1	502.8
77.5°	253.1	283.4	345.9	404.9	431.9
80°	180.5	210.9	276.7	335.7	359.4
82.5°	116.4	148.5	210.9	263.2	283.4
85°	59.1	84.4	138.3	162.0	168.7
87.5°	18.6	30.4	47.2	54.0	54.0
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	17.67	19.34	18.04	19.65	19.97	18.46	20.13	18.82	20.44	20.76
	3H	19.45	20.96	19.83	21.29	21.65	20.60	22.12	20.98	22.44	22.80
	4H	20.09	21.52	20.49	21.86	22.24	21.53	22.95	21.92	23.30	23.68
	6H	20.52	21.84	20.93	22.21	22.60	22.35	23.68	22.76	24.04	24.43
	8H	20.63	21.90	21.05	22.29	22.68	22.70	23.97	23.12	24.36	24.75
	12H	20.68	21.90	21.11	22.28	22.71	22.94	24.16	23.37	24.54	24.97
4H	2H	18.44	19.87	18.84	20.22	20.59	19.06	20.48	19.45	20.83	21.21
	3H	20.45	21.66	20.86	22.05	22.45	21.44	22.65	21.85	23.04	23.44
	4H	21.21	22.31	21.64	22.72	23.15	22.53	23.62	22.96	24.03	24.47
	6H	21.76	22.72	22.21	23.16	23.61	23.53	24.49	23.98	24.93	25.38
	8H	21.92	22.81	22.38	23.26	23.72	23.95	24.85	24.41	25.29	25.76
	12H	22.01	22.81	22.48	23.29	23.76	24.27	25.08	24.75	25.55	26.02
8H	4H	21.69	22.59	22.15	23.03	23.50	22.84	23.73	23.30	24.18	24.64
	6H	22.38	23.13	22.88	23.62	24.09	24.00	24.75	24.49	25.24	25.71
	8H	22.61	23.29	23.12	23.79	24.27	24.55	25.22	25.05	25.72	26.21
	12H	22.76	23.36	23.26	23.85	24.40	24.98	25.57	25.48	26.06	26.62
12H	4H	21.79	22.60	22.27	23.07	23.54	22.87	23.67	23.34	24.15	24.62
	6H	22.53	23.21	23.04	23.71	24.20	24.06	24.73	24.56	25.24	25.72
	8H	22.84	23.43	23.34	23.92	24.48	24.67	25.27	25.18	25.76	26.32