

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: P1586758

Luminaire Tested: 22CZSP-A-57HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586758
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-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

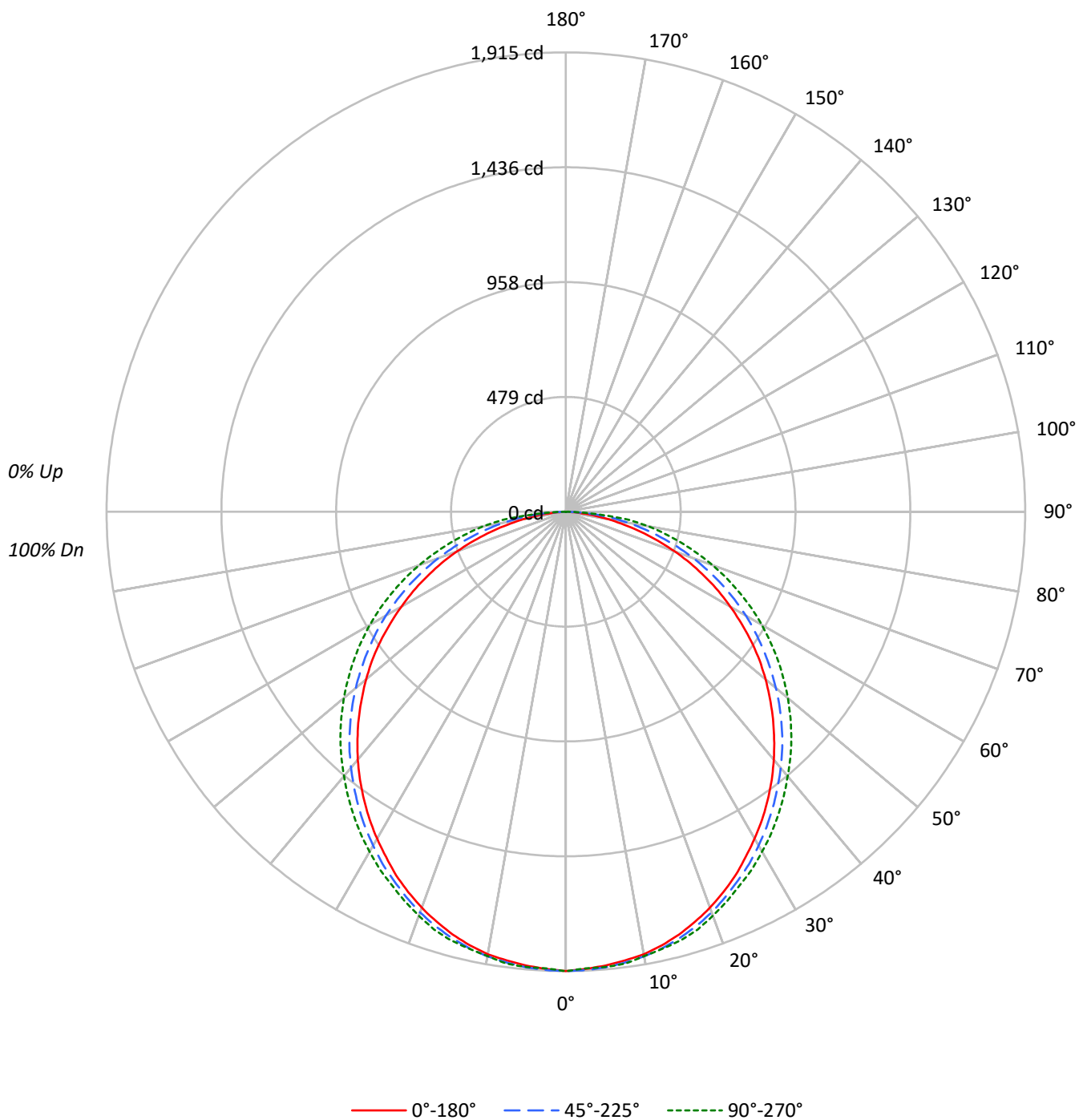
Lumens per Lamp: N/A
Luminaire Lumens: 5590.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5996	5996	5996
5°	5968	5991	5988
10°	5955	5983	5979
15°	5913	5961	5996
20°	5853	5922	5972
25°	5781	5861	5933
30°	5690	5810	5916
35°	5608	5753	5899
40°	5515	5696	5881
45°	5410	5638	5888
50°	5294	5569	5886
55°	5156	5491	5893
60°	4963	5431	5908
65°	4735	5326	5925
70°	4414	5177	5952
75°	3932	4971	6011
80°	3251	4734	6304
85°	2116	4275	5508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.2
10°-20°	518.5	9.3
20°-30°	782.0	14.0
30°-40°	941.9	16.8
40°-50°	983.7	17.6
50°-60°	903.4	16.2
60°-70°	711.5	12.7
70°-80°	436.5	7.8
80°-90°	131.4	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°	1481.6	26.5
0°-40°	2423.5	43.4
0°-60°	4310.6	77.1
0°-90°	5590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1915	1915	1915	1915	1915	
5°	1899	1901	1906	1912	1905	180
15°	1824	1828	1839	1850	1850	514
25°	1673	1677	1696	1717	1717	770
35°	1467	1474	1505	1536	1543	918
45°	1222	1235	1273	1317	1330	942
55°	944	962	1006	1062	1079	843
65°	639	661	719	779	800	632
75°	325	351	411	476	497	345
85°	59	81	119	151	153	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1914.7	1914.7	1914.7	1914.7	1914.7
2.5°	1907.4	1911.0	1912.3	1913.5	1904.9
5°	1898.8	1901.2	1906.1	1912.3	1904.9
7.5°	1886.5	1889.0	1895.1	1903.7	1900.0
10°	1873.0	1874.2	1881.6	1887.7	1880.4
12.5°	1850.9	1854.6	1863.2	1868.1	1865.7
15°	1824.0	1827.6	1838.7	1849.7	1849.7
17.5°	1792.1	1797.0	1810.5	1825.2	1826.4
20°	1756.5	1760.2	1777.3	1792.1	1792.1
22.5°	1716.0	1720.9	1738.1	1754.0	1756.5
25°	1673.1	1676.8	1696.4	1717.2	1717.2
27.5°	1622.8	1630.2	1654.7	1675.5	1680.4
30°	1573.7	1579.9	1606.8	1632.6	1636.3
32.5°	1522.2	1529.6	1557.8	1586.0	1592.1
35°	1467.0	1474.4	1505.0	1535.7	1543.1
37.5°	1409.4	1418.0	1449.8	1485.4	1492.8
40°	1349.3	1359.1	1393.4	1431.4	1438.8
42.5°	1285.5	1299.0	1335.8	1375.0	1386.1
45°	1221.7	1235.2	1273.2	1317.4	1329.6
47.5°	1154.2	1170.2	1209.4	1256.0	1269.5
50°	1086.8	1102.7	1143.2	1193.5	1208.2
52.5°	1018.1	1034.0	1075.7	1128.5	1144.4
55°	944.5	961.7	1005.8	1062.2	1079.4
57.5°	868.4	890.5	937.1	994.8	1011.9
60°	792.4	814.5	867.2	923.6	943.3
62.5°	717.6	738.4	792.4	852.5	873.3
65°	639.1	661.1	718.8	778.9	799.7
67.5°	561.8	583.9	641.5	704.1	726.1
70°	482.1	506.6	565.5	628.0	650.1
72.5°	402.3	428.1	488.2	552.0	572.8
75°	325.0	350.8	410.9	475.9	496.8
77.5°	249.0	277.2	336.1	402.3	422.0
80°	180.3	207.3	262.5	327.5	349.6
82.5°	115.3	138.6	193.8	255.1	271.1
85°	58.9	81.0	119.0	150.9	153.3
87.5°	18.4	25.8	39.3	58.9	60.1
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	17.70	19.36	18.07	19.68	19.99	18.53	20.19	18.90	20.51	20.82
	3H	19.46	20.96	19.83	21.29	21.65	20.65	22.15	21.02	22.48	22.84
	4H	20.07	21.50	20.47	21.84	22.22	21.54	22.96	21.93	23.31	23.68
	6H	20.49	21.81	20.90	22.17	22.56	22.32	23.64	22.73	24.00	24.39
	8H	20.59	21.86	21.02	22.24	22.64	22.64	23.90	23.06	24.29	24.69
	12H	20.65	21.86	21.07	22.24	22.67	22.85	24.06	23.28	24.44	24.87
4H	2H	18.47	19.89	18.87	20.24	20.62	19.12	20.54	19.52	20.89	21.26
	3H	20.45	21.65	20.86	22.04	22.44	21.47	22.67	21.88	23.07	23.47
	4H	21.19	22.27	21.62	22.69	23.12	22.53	23.61	22.96	24.02	24.46
	6H	21.72	22.67	22.17	23.11	23.56	23.48	24.43	23.93	24.87	25.32
	8H	21.86	22.75	22.32	23.19	23.66	23.88	24.77	24.33	25.21	25.67
	12H	21.95	22.75	22.42	23.22	23.69	24.15	24.96	24.63	25.43	25.90
8H	4H	21.65	22.54	22.10	22.98	23.44	22.82	23.71	23.27	24.15	24.61
	6H	22.31	23.05	22.80	23.54	24.01	23.93	24.67	24.42	25.16	25.63
	8H	22.52	23.19	23.02	23.69	24.18	24.44	25.11	24.95	25.61	26.10
	12H	22.66	23.25	23.16	23.74	24.30	24.82	25.42	25.33	25.91	26.46
12H	4H	21.74	22.54	22.21	23.01	23.48	22.84	23.64	23.32	24.12	24.59
	6H	22.44	23.11	22.95	23.61	24.10	23.97	24.64	24.48	25.15	25.63
	8H	22.72	23.31	23.22	23.80	24.36	24.55	25.14	25.06	25.63	26.19