

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: P1586494

Luminaire Tested: 22CZSP-54HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586494
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-54HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

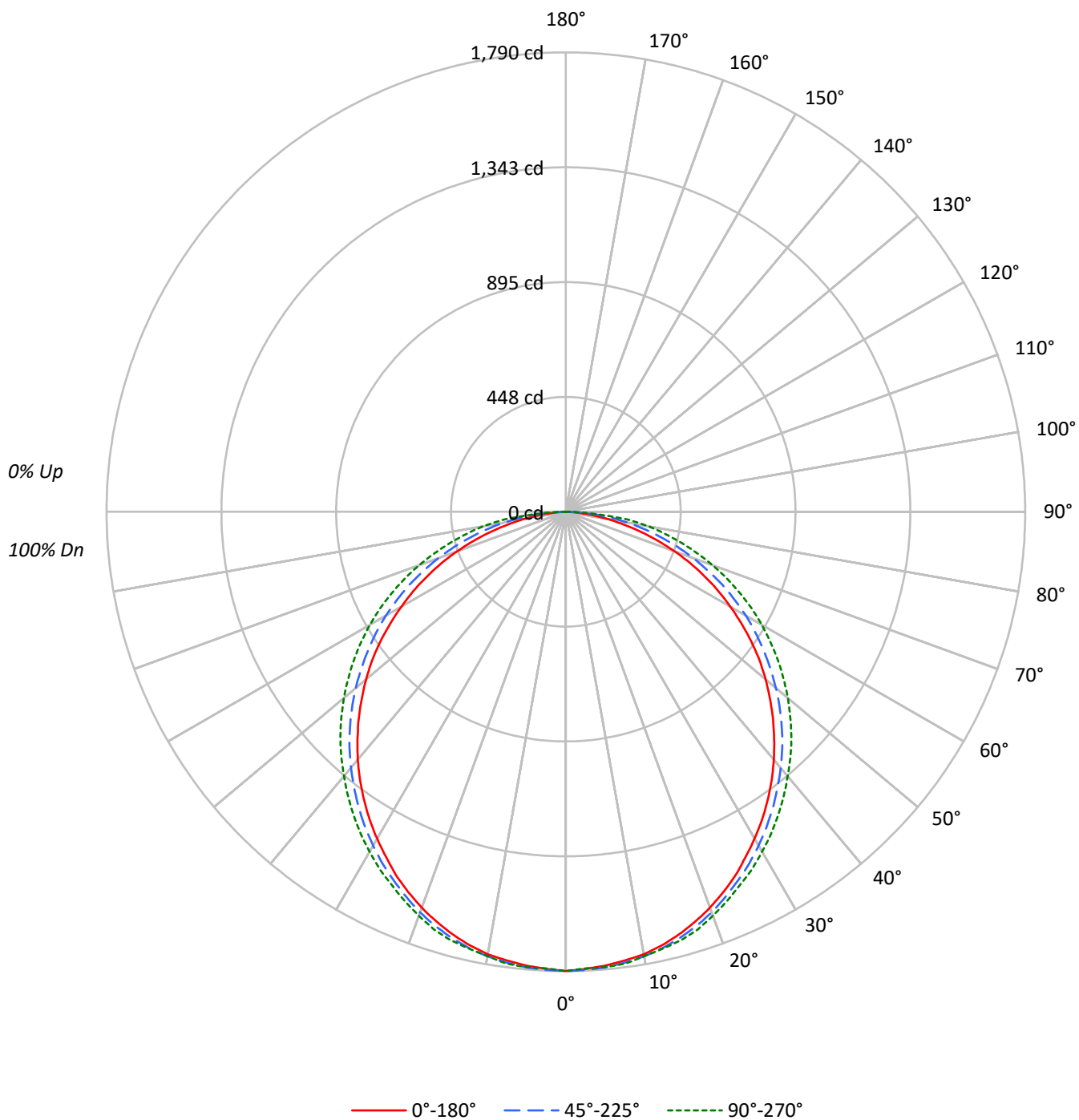
Lumens per Lamp: N/A
Luminaire Lumens: 5225.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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°	5604	5604	5604
5°	5579	5600	5597
10°	5567	5592	5589
15°	5527	5571	5605
20°	5471	5536	5582
25°	5403	5478	5546
30°	5319	5430	5530
35°	5242	5378	5513
40°	5155	5324	5497
45°	5057	5270	5504
50°	4948	5205	5501
55°	4819	5132	5508
60°	4638	5077	5522
65°	4426	4978	5538
70°	4125	4839	5564
75°	3676	4647	5617
80°	3038	4425	5893
85°	1976	3995	5148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6079 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.2
10°-20°	484.7	9.3
20°-30°	730.9	14.0
30°-40°	880.4	16.8
40°-50°	919.4	17.6
50°-60°	844.4	16.2
60°-70°	665.1	12.7
70°-80°	408.0	7.8
80°-90°	122.8	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°	1384.9	26.5
0°-40°	2265.3	43.4
0°-60°	4029.1	77.1
0°-90°	5225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1775	1777	1782	1787	1780	169
15°	1705	1708	1719	1729	1729	481
25°	1564	1567	1586	1605	1605	720
35°	1371	1378	1407	1435	1442	858
45°	1142	1154	1190	1231	1243	880
55°	883	899	940	993	1009	788
65°	597	618	672	728	748	591
75°	304	328	384	445	464	322
85°	55	76	111	141	143	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.7	1789.7	1789.7	1789.7	1789.7
2.5°	1782.8	1786.3	1787.4	1788.6	1780.5
5°	1774.8	1777.1	1781.7	1787.4	1780.5
7.5°	1763.3	1765.6	1771.4	1779.4	1775.9
10°	1750.7	1751.9	1758.7	1764.5	1757.6
12.5°	1730.1	1733.5	1741.5	1746.1	1743.8
15°	1704.9	1708.3	1718.6	1728.9	1728.9
17.5°	1675.1	1679.6	1692.2	1706.0	1707.2
20°	1641.8	1645.2	1661.3	1675.1	1675.1
22.5°	1604.0	1608.6	1624.6	1639.5	1641.8
25°	1563.8	1567.3	1585.6	1605.1	1605.1
27.5°	1516.8	1523.7	1546.6	1566.1	1570.7
30°	1471.0	1476.7	1501.9	1526.0	1529.4
32.5°	1422.8	1429.7	1456.1	1482.4	1488.2
35°	1371.2	1378.1	1406.8	1435.4	1442.3
37.5°	1317.3	1325.4	1355.2	1388.4	1395.3
40°	1261.2	1270.3	1302.4	1338.0	1344.9
42.5°	1201.5	1214.2	1248.5	1285.2	1295.6
45°	1141.9	1154.5	1190.1	1231.4	1242.8
47.5°	1078.9	1093.8	1130.5	1174.0	1186.6
50°	1015.8	1030.7	1068.5	1115.6	1129.3
52.5°	951.6	966.5	1005.5	1054.8	1069.7
55°	882.8	898.9	940.1	992.9	1008.9
57.5°	811.7	832.4	875.9	929.8	945.9
60°	740.6	761.3	810.6	863.3	881.7
62.5°	670.7	690.2	740.6	796.8	816.3
65°	597.3	618.0	671.9	728.0	747.5
67.5°	525.1	545.7	599.6	658.1	678.7
70°	450.6	473.5	528.5	587.0	607.7
72.5°	376.1	400.1	456.3	515.9	535.4
75°	303.8	327.9	384.1	444.8	464.3
77.5°	232.7	259.1	314.1	376.1	394.4
80°	168.5	193.8	245.4	306.1	326.8
82.5°	107.8	129.6	181.1	238.5	253.4
85°	55.0	75.7	111.2	141.0	143.3
87.5°	17.2	24.1	36.7	55.0	56.2
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	17.47	19.13	17.83	19.44	19.76	18.30	19.96	18.66	20.27	20.59
	3H	19.22	20.73	19.60	21.06	21.41	20.41	21.92	20.79	22.25	22.61
	4H	19.84	21.26	20.24	21.61	21.98	21.30	22.72	21.70	23.07	23.45
	6H	20.25	21.57	20.66	21.94	22.33	22.08	23.40	22.49	23.77	24.16
	8H	20.36	21.62	20.78	22.01	22.41	22.40	23.67	22.83	24.05	24.45
	12H	20.41	21.62	20.84	22.00	22.43	22.61	23.82	23.04	24.21	24.63
4H	2H	18.24	19.66	18.64	20.01	20.38	18.88	20.31	19.28	20.65	21.03
	3H	20.22	21.41	20.62	21.81	22.21	21.24	22.44	21.65	22.83	23.23
	4H	20.95	22.04	21.38	22.45	22.89	22.29	23.38	22.72	23.79	24.22
	6H	21.48	22.43	21.93	22.87	23.33	23.24	24.20	23.70	24.64	25.09
	8H	21.63	22.52	22.09	22.96	23.42	23.64	24.53	24.10	24.97	25.44
	12H	21.71	22.51	22.19	22.99	23.46	23.92	24.72	24.40	25.20	25.66
8H	4H	21.41	22.30	21.87	22.74	23.21	22.58	23.47	23.04	23.91	24.38
	6H	22.07	22.82	22.56	23.30	23.78	23.69	24.44	24.18	24.92	25.40
	8H	22.28	22.95	22.79	23.46	23.94	24.20	24.87	24.71	25.38	25.86
	12H	22.42	23.01	22.93	23.50	24.06	24.59	25.18	25.09	25.67	26.23
12H	4H	21.50	22.30	21.98	22.78	23.25	22.60	23.41	23.08	23.88	24.35
	6H	22.20	22.87	22.71	23.38	23.86	23.74	24.41	24.25	24.91	25.40
	8H	22.48	23.07	22.99	23.56	24.12	24.32	24.91	24.82	25.40	25.96