

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: P1586492

Luminaire Tested: 22CZSP-54HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586492
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

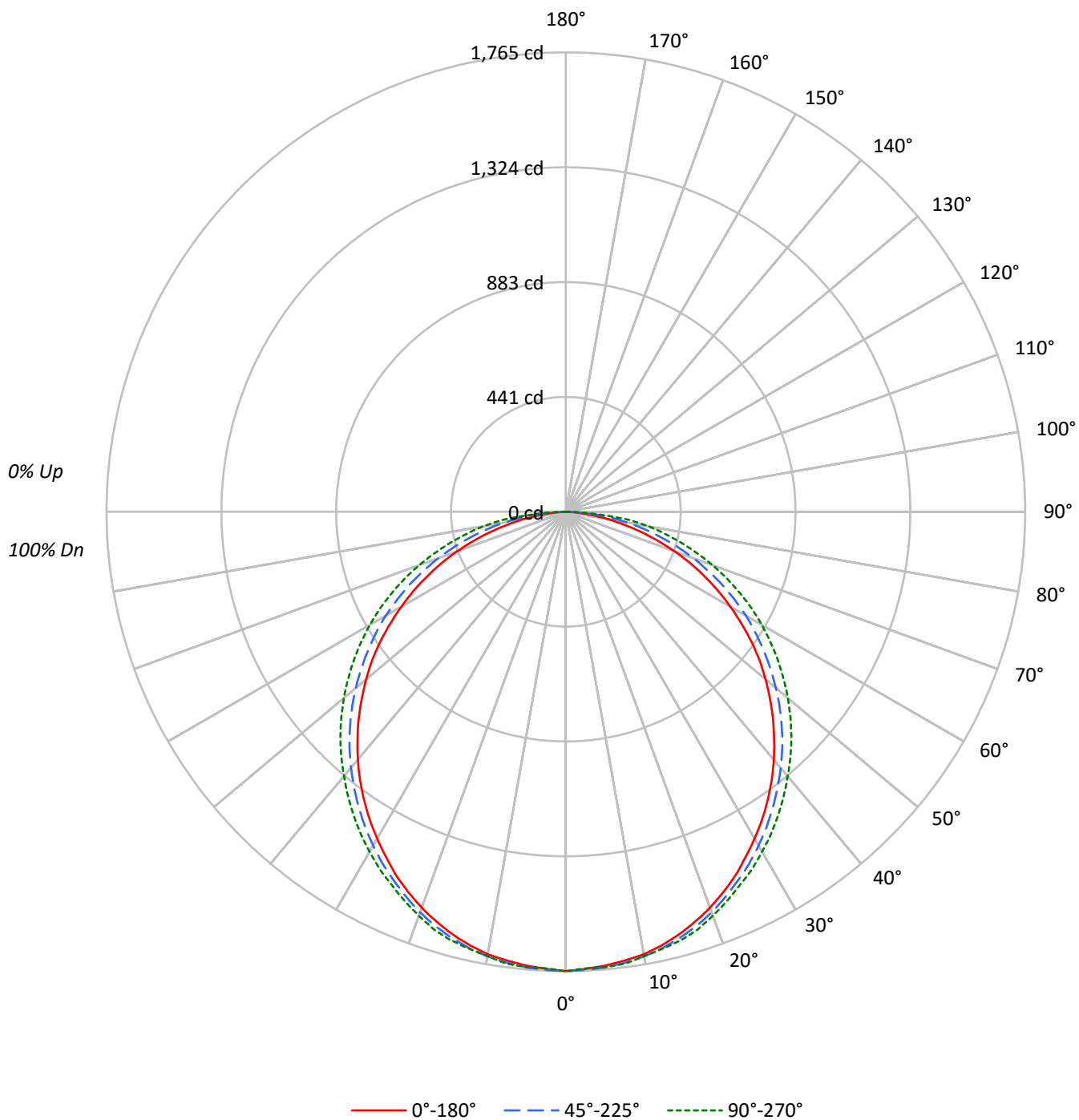
Lumens per Lamp: N/A
Luminaire Lumens: 5152.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5526	5526	5526
5°	5501	5522	5519
10°	5489	5514	5510
15°	5449	5494	5527
20°	5395	5459	5504
25°	5328	5402	5468
30°	5244	5355	5453
35°	5169	5302	5437
40°	5083	5249	5421
45°	4986	5197	5427
50°	4879	5133	5424
55°	4752	5061	5431
60°	4574	5006	5444
65°	4364	4909	5461
70°	4068	4772	5486
75°	3625	4582	5539
80°	2997	4362	5810
85°	1951	3941	5077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5993 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.2
10°-20°	477.9	9.3
20°-30°	720.7	14.0
30°-40°	868.1	16.8
40°-50°	906.6	17.6
50°-60°	832.6	16.2
60°-70°	655.8	12.7
70°-80°	402.3	7.8
80°-90°	121.1	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°	1365.5	26.5
0°-40°	2233.6	43.4
0°-60°	3972.8	77.1
0°-90°	5152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1750	1752	1757	1762	1756	166
15°	1681	1684	1695	1705	1705	474
25°	1542	1545	1564	1583	1583	710
35°	1352	1359	1387	1415	1422	846
45°	1126	1138	1174	1214	1226	868
55°	870	886	927	979	995	777
65°	589	609	662	718	737	583
75°	300	323	379	439	458	318
85°	54	75	110	139	141	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1757.9	1761.3	1762.4	1763.6	1755.7
5°	1750.0	1752.3	1756.8	1762.4	1755.7
7.5°	1738.7	1741.0	1746.6	1754.5	1751.1
10°	1726.3	1727.4	1734.2	1739.8	1733.0
12.5°	1705.9	1709.3	1717.2	1721.7	1719.5
15°	1681.0	1684.4	1694.6	1704.8	1704.8
17.5°	1651.6	1656.2	1668.6	1682.2	1683.3
20°	1618.9	1622.3	1638.1	1651.6	1651.6
22.5°	1581.6	1586.1	1601.9	1616.6	1618.9
25°	1542.0	1545.4	1563.5	1582.7	1582.7
27.5°	1495.6	1502.4	1525.0	1544.3	1548.8
30°	1450.4	1456.1	1480.9	1504.7	1508.1
32.5°	1402.9	1409.7	1435.7	1461.7	1467.4
35°	1352.1	1358.9	1387.1	1415.4	1422.2
37.5°	1298.9	1306.8	1336.2	1369.0	1375.8
40°	1243.5	1252.6	1284.2	1319.3	1326.1
42.5°	1184.8	1197.2	1231.1	1267.3	1277.5
45°	1126.0	1138.4	1173.5	1214.1	1225.5
47.5°	1063.8	1078.5	1114.7	1157.6	1170.1
50°	1001.6	1016.3	1053.6	1100.0	1113.5
52.5°	938.3	953.0	991.4	1040.1	1054.7
55°	870.5	886.3	927.0	979.0	994.8
57.5°	800.4	820.7	863.7	916.8	932.7
60°	730.3	750.6	799.3	851.3	869.3
62.5°	661.3	680.6	730.3	785.7	804.9
65°	589.0	609.3	662.5	717.9	737.1
67.5°	517.8	538.1	591.2	648.9	669.3
70°	444.3	466.9	521.2	578.8	599.2
72.5°	370.8	394.5	449.9	508.7	527.9
75°	299.6	323.3	378.7	438.6	457.8
77.5°	229.5	255.5	309.8	370.8	388.9
80°	166.2	191.1	241.9	301.8	322.2
82.5°	106.3	127.7	178.6	235.1	249.8
85°	54.3	74.6	109.7	139.1	141.3
87.5°	17.0	23.7	36.2	54.3	55.4
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	17.42	19.08	17.78	19.39	19.71	18.25	19.91	18.61	20.22	20.54
	3H	19.17	20.68	19.55	21.01	21.37	20.36	21.87	20.74	22.20	22.56
	4H	19.79	21.21	20.19	21.56	21.94	21.25	22.68	21.65	23.02	23.40
	6H	20.20	21.52	20.61	21.89	22.28	22.03	23.35	22.44	23.72	24.11
	8H	20.31	21.57	20.73	21.96	22.36	22.35	23.62	22.78	24.01	24.40
	12H	20.36	21.57	20.79	21.95	22.38	22.57	23.78	22.99	24.16	24.59
4H	2H	18.19	19.61	18.59	19.96	20.33	18.84	20.26	19.23	20.60	20.98
	3H	20.17	21.36	20.58	21.76	22.16	21.19	22.39	21.60	22.78	23.18
	4H	20.90	21.99	21.33	22.40	22.84	22.24	23.33	22.67	23.74	24.18
	6H	21.43	22.38	21.88	22.82	23.28	23.19	24.15	23.65	24.59	25.04
	8H	21.58	22.47	22.04	22.91	23.38	23.59	24.48	24.05	24.93	25.39
	12H	21.66	22.47	22.14	22.94	23.41	23.87	24.67	24.35	25.15	25.61
8H	4H	21.36	22.25	21.82	22.70	23.16	22.53	23.42	22.99	23.86	24.33
	6H	22.02	22.77	22.52	23.25	23.73	23.64	24.39	24.14	24.87	25.35
	8H	22.23	22.90	22.74	23.41	23.89	24.16	24.82	24.66	25.33	25.81
	12H	22.37	22.97	22.88	23.45	24.01	24.54	25.13	25.05	25.62	26.18
12H	4H	21.45	22.26	21.93	22.73	23.20	22.56	23.36	23.03	23.83	24.30
	6H	22.16	22.83	22.66	23.33	23.81	23.69	24.36	24.20	24.86	25.35
	8H	22.43	23.03	22.94	23.51	24.07	24.27	24.86	24.77	25.35	25.91