

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: P1585753

Luminaire Tested: 14CZSP-SB-52-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-52-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

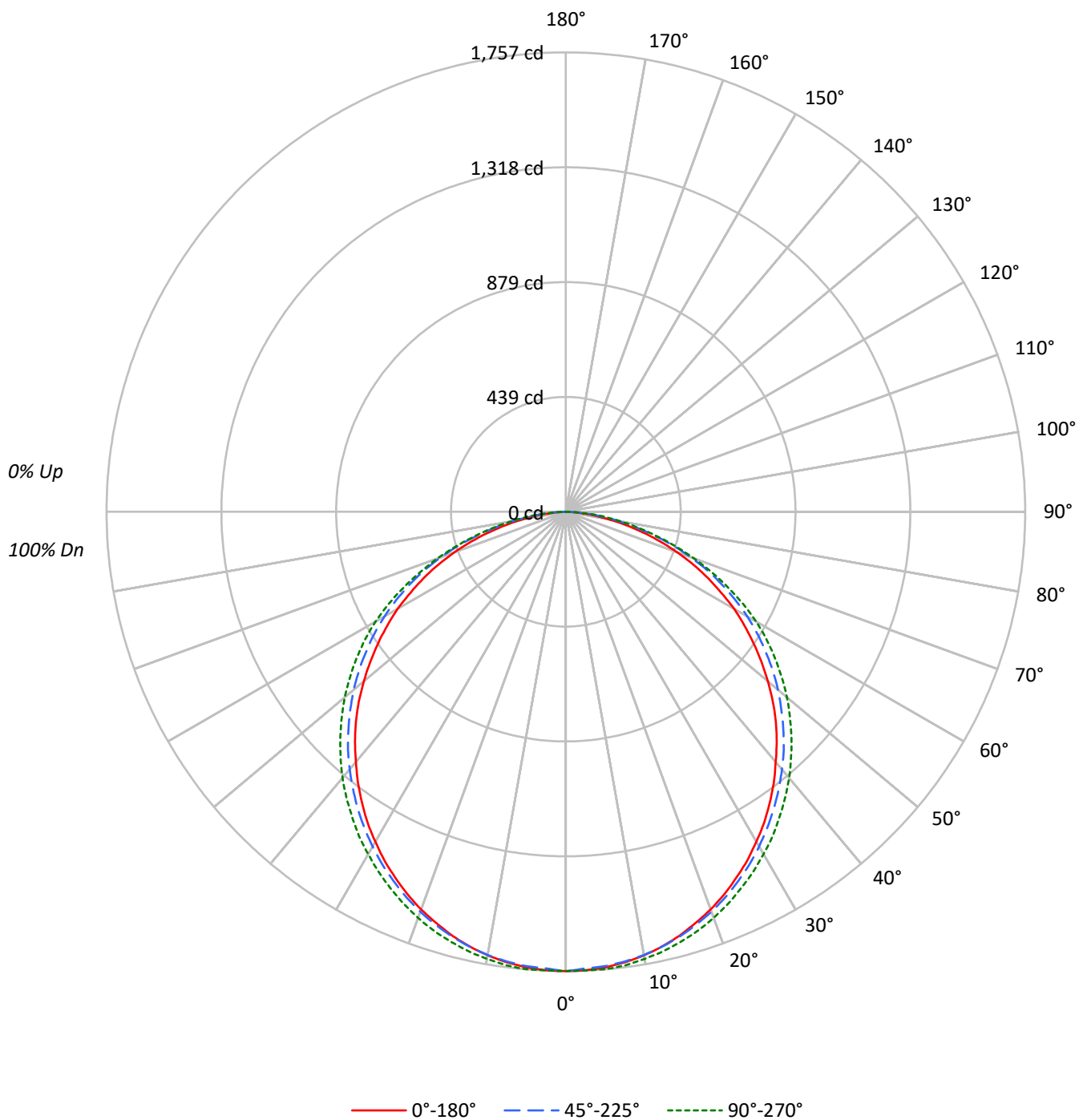
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5076.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5920	5920	5920
5°	5916	5901	5941
10°	5894	5889	5942
15°	5856	5869	5938
20°	5805	5839	5928
25°	5741	5796	5904
30°	5670	5752	5883
35°	5591	5705	5862
40°	5494	5657	5847
45°	5414	5606	5815
50°	5286	5554	5788
55°	5150	5481	5743
60°	5011	5401	5667
65°	4786	5258	5451
70°	4466	5021	5144
75°	3979	4550	4683
80°	3248	3945	4143
85°	2150	3139	3364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5815 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.3
10°-20°	476.7	9.4
20°-30°	721.7	14.2
30°-40°	871.1	17.2
40°-50°	909.7	17.9
50°-60°	832.2	16.4
60°-70°	643.4	12.7
70°-80°	364.2	7.2
80°-90°	90.5	1.8
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°	1364.8	26.9
0°-40°	2235.9	44.0
0°-60°	3977.9	78.4
0°-90°	5076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1749	1761	1745	1746	1756	166
15°	1679	1693	1682	1690	1702	473
25°	1544	1564	1559	1574	1588	712
35°	1359	1378	1387	1410	1425	850
45°	1136	1158	1176	1206	1220	875
55°	877	903	933	962	978	784
65°	600	625	660	679	684	593
75°	306	332	350	358	360	324
85°	56	64	81	85	87	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1757.0	1757.0	1757.0	1757.0	1757.0
2.5°	1754.8	1767.3	1748.2	1751.9	1755.6
5°	1749.0	1761.4	1744.6	1746.1	1756.3
7.5°	1738.0	1751.9	1734.4	1737.3	1749.7
10°	1722.7	1736.5	1721.2	1724.1	1736.5
12.5°	1702.9	1716.8	1703.6	1708.0	1721.9
15°	1678.8	1693.4	1682.4	1690.5	1702.2
17.5°	1649.5	1667.8	1656.1	1668.5	1680.2
20°	1618.8	1637.1	1628.3	1639.3	1653.2
22.5°	1583.7	1602.0	1595.4	1607.1	1622.5
25°	1544.2	1564.0	1558.9	1573.5	1588.1
27.5°	1503.3	1522.3	1520.8	1536.9	1552.3
30°	1457.2	1477.7	1478.4	1497.5	1512.1
32.5°	1411.2	1429.5	1433.8	1455.0	1471.9
35°	1359.3	1378.3	1387.0	1410.4	1425.1
37.5°	1306.6	1327.8	1337.3	1362.9	1378.3
40°	1248.9	1273.0	1286.1	1313.2	1329.3
42.5°	1194.0	1215.9	1233.5	1260.5	1275.2
45°	1136.2	1158.2	1176.5	1206.4	1220.3
47.5°	1074.1	1098.2	1118.0	1147.2	1162.6
50°	1008.3	1034.6	1059.5	1088.0	1104.1
52.5°	943.2	968.8	997.3	1025.1	1041.2
55°	876.7	903.0	933.0	962.2	977.6
57.5°	809.4	835.7	868.6	895.0	911.0
60°	743.6	767.7	801.4	827.7	840.9
62.5°	669.0	696.8	731.2	757.5	764.8
65°	600.3	625.2	659.5	679.3	683.7
67.5°	527.2	552.0	586.4	597.4	604.0
70°	453.3	479.7	509.6	516.9	522.1
72.5°	378.7	405.8	429.2	436.5	440.9
75°	305.6	332.0	349.5	358.3	359.7
77.5°	234.7	258.8	274.9	285.2	285.2
80°	167.4	185.7	203.3	214.2	213.5
82.5°	106.8	120.6	138.9	147.0	152.1
85°	55.6	64.3	81.2	84.8	87.0
87.5°	17.5	22.7	29.2	24.1	23.4
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	17.86	19.51	18.22	19.82	20.14	18.40	20.05	18.76	20.36	20.68
	3H	19.63	21.13	20.01	21.45	21.81	20.26	21.75	20.64	22.08	22.44
	4H	20.26	21.66	20.65	22.01	22.39	20.93	22.34	21.33	22.69	23.06
	6H	20.66	21.97	21.07	22.33	22.72	21.42	22.72	21.83	23.09	23.48
	8H	20.76	22.01	21.18	22.40	22.80	21.57	22.82	22.00	23.21	23.61
	12H	20.81	22.00	21.24	22.39	22.81	21.67	22.87	22.10	23.25	23.68
4H	2H	18.60	20.01	19.00	20.35	20.73	19.02	20.43	19.42	20.77	21.15
	3H	20.59	21.77	21.00	22.17	22.57	21.10	22.28	21.51	22.68	23.08
	4H	21.34	22.41	21.77	22.82	23.26	21.90	22.97	22.33	23.38	23.82
	6H	21.86	22.79	22.31	23.23	23.69	22.51	23.45	22.97	23.89	24.34
	8H	21.99	22.87	22.45	23.31	23.78	22.72	23.59	23.18	24.03	24.50
	12H	22.07	22.86	22.55	23.33	23.80	22.86	23.64	23.34	24.12	24.59
8H	4H	21.69	22.57	22.15	23.01	23.48	22.19	23.06	22.65	23.51	23.97
	6H	22.33	23.05	22.82	23.54	24.02	22.92	23.65	23.41	24.14	24.61
	8H	22.52	23.17	23.03	23.68	24.16	23.19	23.85	23.70	24.35	24.84
	12H	22.65	23.22	23.15	23.71	24.27	23.40	23.98	23.91	24.47	25.03
12H	4H	21.74	22.52	22.21	23.00	23.47	22.21	23.00	22.69	23.47	23.94
	6H	22.39	23.04	22.90	23.55	24.04	22.96	23.62	23.47	24.12	24.61
	8H	22.64	23.22	23.15	23.71	24.27	23.29	23.87	23.80	24.36	24.92