

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: P1585755

Luminaire Tested: 14CZSP-SB-52-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585755
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

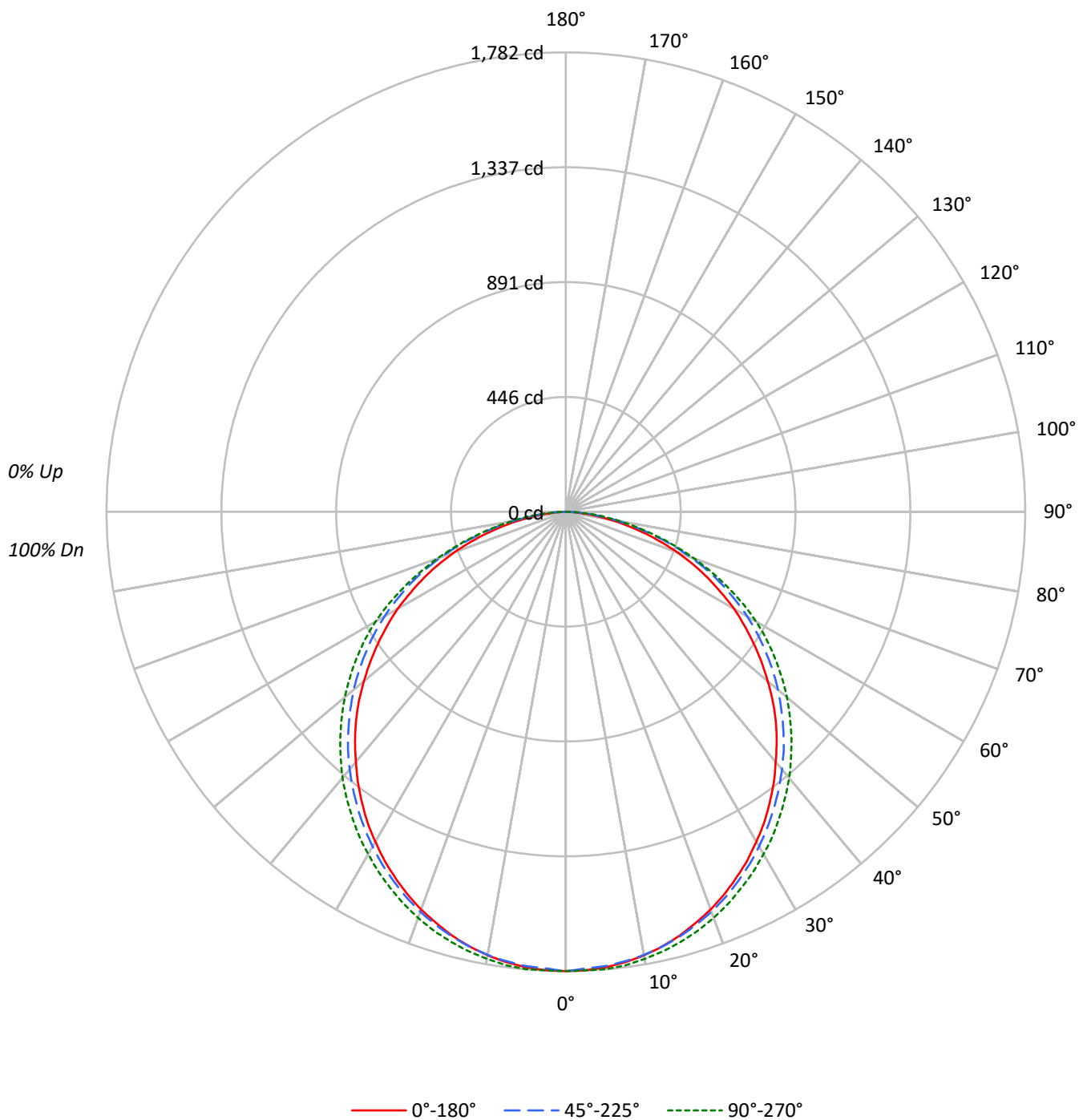
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5148.0 lumens
Efficiency: N/A
Efficacy: 139.5 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			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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6004	6004	6004
5°	6000	5985	6025
10°	5978	5973	6026
15°	5939	5952	6022
20°	5887	5922	6012
25°	5823	5878	5988
30°	5750	5834	5967
35°	5670	5786	5945
40°	5571	5738	5930
45°	5492	5686	5898
50°	5361	5633	5870
55°	5223	5559	5825
60°	5083	5477	5747
65°	4854	5333	5528
70°	4530	5092	5217
75°	4036	4615	4749
80°	3295	4001	4201
85°	2181	3182	3410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	3.3
10°-20°	483.4	9.4
20°-30°	731.9	14.2
30°-40°	883.5	17.2
40°-50°	922.6	17.9
50°-60°	844.0	16.4
60°-70°	652.5	12.7
70°-80°	369.4	7.2
80°-90°	91.8	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°	1384.2	26.9
0°-40°	2267.6	44.0
0°-60°	4034.3	78.4
0°-90°	5148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1774	1786	1769	1771	1781	168
15°	1703	1717	1706	1714	1726	480
25°	1566	1586	1581	1596	1611	722
35°	1378	1398	1407	1430	1445	862
45°	1152	1175	1193	1224	1238	887
55°	889	916	946	976	992	795
65°	609	634	669	689	693	601
75°	310	337	354	363	365	329
85°	56	65	82	86	88	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.9	1781.9	1781.9	1781.9	1781.9
2.5°	1779.7	1792.3	1773.0	1776.7	1780.5
5°	1773.8	1786.4	1769.3	1770.8	1781.2
7.5°	1762.7	1776.7	1759.0	1761.9	1774.5
10°	1747.1	1761.2	1745.6	1748.6	1761.2
12.5°	1727.1	1741.2	1727.8	1732.3	1746.3
15°	1702.6	1717.4	1706.3	1714.5	1726.3
17.5°	1672.9	1691.5	1679.6	1692.2	1704.1
20°	1641.8	1660.3	1651.4	1662.6	1676.6
22.5°	1606.2	1624.7	1618.1	1629.9	1645.5
25°	1566.2	1586.2	1581.0	1595.8	1610.6
27.5°	1524.6	1543.9	1542.4	1558.7	1574.3
30°	1477.9	1498.7	1499.4	1518.7	1533.5
32.5°	1431.2	1449.7	1454.2	1475.7	1492.7
35°	1378.5	1397.8	1406.7	1430.4	1445.3
37.5°	1325.1	1346.7	1356.3	1382.2	1397.8
40°	1266.6	1291.0	1304.4	1331.8	1348.1
42.5°	1210.9	1233.2	1251.0	1278.4	1293.3
45°	1152.4	1174.6	1193.2	1223.6	1237.6
47.5°	1089.3	1113.8	1133.8	1163.5	1179.1
50°	1022.6	1049.3	1074.5	1103.4	1119.7
52.5°	956.6	982.6	1011.5	1039.7	1056.0
55°	889.1	915.8	946.2	975.9	991.5
57.5°	820.9	847.6	881.0	907.7	924.0
60°	754.2	778.6	812.7	839.4	852.8
62.5°	678.5	706.7	741.5	768.2	775.7
65°	608.8	634.0	668.9	688.9	693.3
67.5°	534.7	559.9	594.7	605.8	612.5
70°	459.8	486.5	516.9	524.3	529.5
72.5°	384.1	411.6	435.3	442.7	447.2
75°	310.0	336.7	354.5	363.4	364.8
77.5°	238.0	262.5	278.8	289.2	289.2
80°	169.8	188.4	206.2	217.3	216.5
82.5°	108.3	122.4	140.9	149.1	154.2
85°	56.4	65.3	82.3	86.0	88.2
87.5°	17.8	23.0	29.7	24.5	23.7
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	17.91	19.56	18.27	19.87	20.19	18.45	20.10	18.81	20.41	20.73
	3H	19.68	21.17	20.06	21.50	21.86	20.31	21.80	20.69	22.13	22.49
	4H	20.30	21.71	20.70	22.06	22.43	20.98	22.39	21.38	22.74	23.11
	6H	20.71	22.01	21.12	22.38	22.77	21.47	22.77	21.88	23.14	23.53
	8H	20.81	22.06	21.23	22.45	22.84	21.62	22.87	22.05	23.26	23.66
	12H	20.86	22.05	21.29	22.44	22.86	21.72	22.92	22.15	23.30	23.73
4H	2H	18.65	20.05	19.04	20.40	20.78	19.07	20.48	19.47	20.82	21.20
	3H	20.64	21.82	21.05	22.22	22.62	21.15	22.33	21.56	22.73	23.13
	4H	21.39	22.46	21.82	22.87	23.31	21.95	23.02	22.38	23.43	23.87
	6H	21.91	22.84	22.36	23.28	23.74	22.56	23.50	23.02	23.94	24.39
	8H	22.04	22.92	22.50	23.36	23.82	22.77	23.64	23.23	24.08	24.55
	12H	22.12	22.91	22.60	23.38	23.85	22.91	23.69	23.38	24.17	24.64
8H	4H	21.74	22.62	22.20	23.06	23.52	22.24	23.11	22.70	23.55	24.02
	6H	22.38	23.10	22.87	23.59	24.07	22.97	23.70	23.46	24.18	24.66
	8H	22.57	23.22	23.08	23.73	24.21	23.24	23.90	23.75	24.40	24.89
	12H	22.70	23.27	23.20	23.76	24.32	23.45	24.03	23.96	24.52	25.08
12H	4H	21.78	22.57	22.26	23.05	23.52	22.26	23.05	22.74	23.52	23.99
	6H	22.44	23.09	22.95	23.60	24.09	23.01	23.67	23.52	24.17	24.66
	8H	22.69	23.27	23.20	23.76	24.32	23.34	23.92	23.85	24.41	24.97