

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: P1585734

Luminaire Tested: 14CZSP-SB-49HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-49HE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

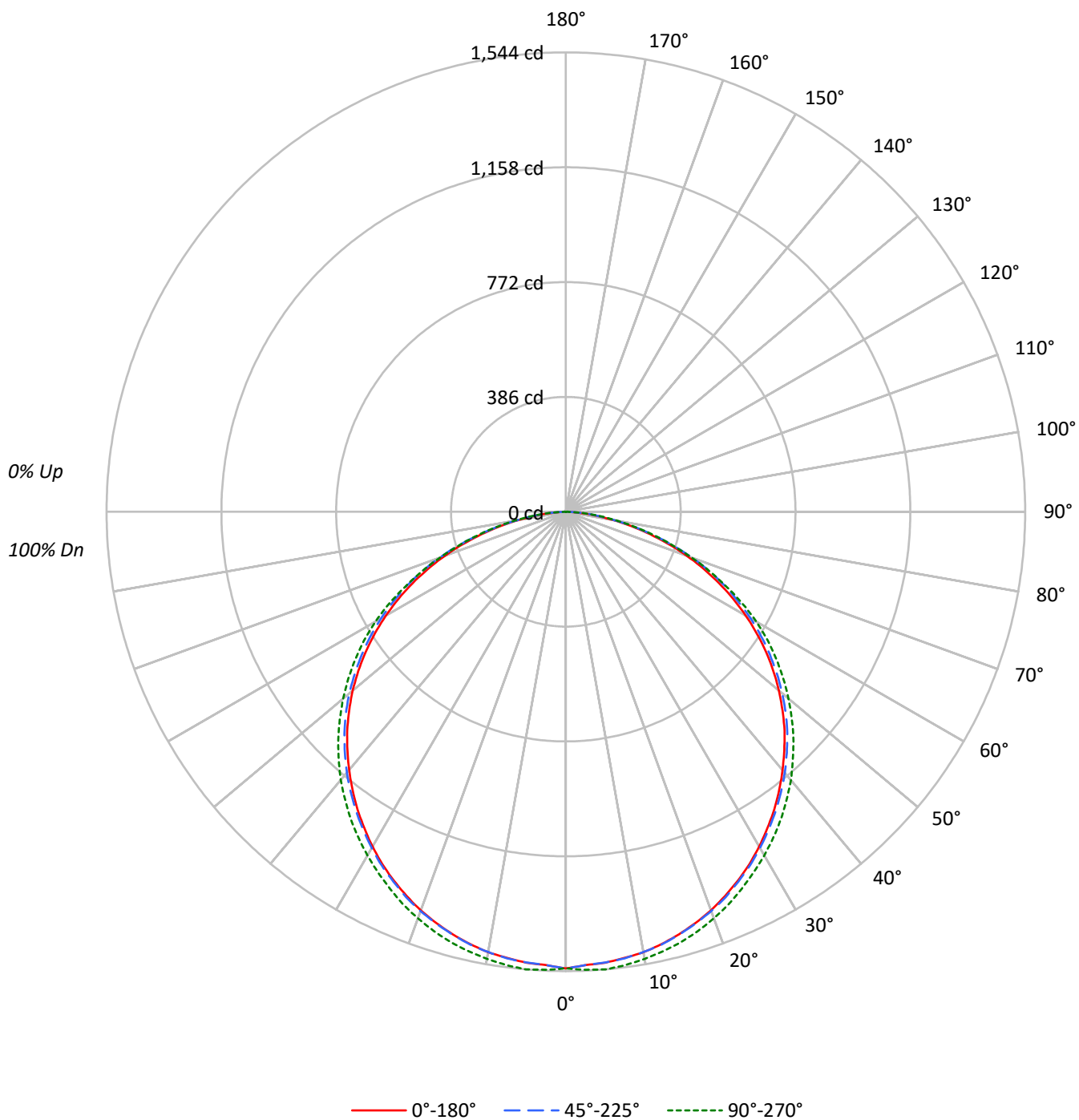
Lumens per Lamp: N/A
Luminaire Lumens: 4529.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5171	5171	5171
5°	5146	5144	5221
10°	5144	5142	5220
15°	5129	5134	5223
20°	5113	5123	5215
25°	5087	5100	5198
30°	5057	5078	5189
35°	5024	5055	5186
40°	4985	5036	5177
45°	4954	5016	5156
50°	4904	4981	5122
55°	4828	4918	5072
60°	4711	4833	4982
65°	4534	4706	4755
70°	4263	4462	4434
75°	3828	3990	4018
80°	3163	3324	3499
85°	2119	2467	2602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5156 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.2
10°-20°	418.1	9.2
20°-30°	636.7	14.1
30°-40°	774.9	17.1
40°-50°	816.9	18.0
50°-60°	752.4	16.6
60°-70°	581.1	12.8
70°-80°	325.2	7.2
80°-90°	78.4	1.7
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°	1200.2	26.5
0°-40°	1975.1	43.6
0°-60°	3544.4	78.3
0°-90°	4529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1522	1543	1521	1523	1544	145
15°	1470	1490	1472	1480	1497	415
25°	1368	1388	1372	1381	1398	631
35°	1221	1239	1229	1244	1261	764
45°	1040	1054	1053	1069	1082	801
55°	822	836	837	854	863	733
65°	569	585	590	596	596	562
75°	294	312	306	306	309	312
85°	55	60	64	71	67	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1525.0	1547.2	1525.0	1528.5	1541.0
5°	1521.5	1543.0	1520.8	1522.9	1543.7
7.5°	1512.5	1534.7	1513.9	1516.7	1536.8
10°	1503.5	1523.6	1502.8	1506.3	1525.7
12.5°	1488.2	1509.1	1489.6	1493.8	1513.2
15°	1470.2	1490.3	1471.6	1479.9	1497.3
17.5°	1449.4	1468.8	1450.8	1460.5	1477.2
20°	1425.8	1444.6	1428.6	1435.5	1454.3
22.5°	1398.1	1417.5	1402.3	1408.5	1428.6
25°	1368.3	1387.7	1371.7	1380.8	1398.1
27.5°	1335.7	1354.4	1340.5	1351.6	1366.9
30°	1299.6	1317.6	1305.2	1318.3	1333.6
32.5°	1260.8	1280.2	1267.7	1283.0	1298.2
35°	1221.3	1239.3	1228.9	1244.1	1260.8
37.5°	1178.3	1195.6	1188.0	1203.9	1219.2
40°	1133.2	1152.6	1145.0	1161.6	1176.9
42.5°	1086.7	1105.4	1099.2	1116.5	1129.7
45°	1039.6	1054.1	1052.7	1068.7	1081.9
47.5°	987.5	1005.6	1002.8	1018.7	1030.5
50°	935.5	950.1	950.1	965.3	977.1
52.5°	879.4	893.9	893.9	912.0	921.7
55°	821.8	835.7	837.1	854.4	863.4
57.5°	760.8	775.3	778.1	795.4	803.8
60°	699.0	712.9	717.1	734.4	739.3
62.5°	634.6	651.2	653.3	667.1	669.9
65°	568.7	585.3	590.2	595.7	596.4
67.5°	501.4	518.7	523.6	523.6	523.6
70°	432.7	448.7	452.9	450.1	450.1
72.5°	363.4	380.7	378.7	375.9	377.3
75°	294.0	312.1	306.5	305.8	308.6
77.5°	227.5	244.8	235.8	241.3	242.0
80°	163.0	176.1	171.3	179.6	180.3
82.5°	104.7	113.0	114.4	121.4	119.3
85°	54.8	60.3	63.8	71.4	67.3
87.5°	17.3	22.9	20.8	24.3	18.7
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	17.74	19.40	18.11	19.71	20.03	17.96	19.62	18.32	19.93	20.24
	3H	19.56	21.06	19.94	21.39	21.75	19.76	21.26	20.14	21.58	21.94
	4H	20.21	21.62	20.61	21.97	22.35	20.40	21.81	20.80	22.16	22.53
	6H	20.64	21.95	21.05	22.31	22.70	20.85	22.16	21.26	22.52	22.91
	8H	20.75	22.00	21.17	22.39	22.79	20.98	22.23	21.41	22.62	23.02
	12H	20.80	22.00	21.23	22.38	22.81	21.06	22.26	21.49	22.64	23.07
4H	2H	18.42	19.83	18.82	20.18	20.56	18.59	20.00	18.99	20.35	20.73
	3H	20.46	21.65	20.87	22.05	22.45	20.61	21.79	21.02	22.19	22.59
	4H	21.24	22.32	21.67	22.73	23.16	21.36	22.44	21.80	22.85	23.28
	6H	21.79	22.73	22.25	23.17	23.63	21.94	22.88	22.39	23.32	23.77
	8H	21.94	22.82	22.40	23.26	23.72	22.11	22.99	22.57	23.43	23.90
	12H	22.02	22.81	22.50	23.29	23.75	22.23	23.02	22.71	23.49	23.96
8H	4H	21.55	22.43	22.01	22.87	23.33	21.66	22.54	22.12	22.98	23.44
	6H	22.21	22.94	22.70	23.43	23.90	22.34	23.07	22.83	23.56	24.03
	8H	22.42	23.07	22.92	23.57	24.06	22.58	23.23	23.09	23.74	24.22
	12H	22.55	23.13	23.06	23.62	24.18	22.76	23.33	23.26	23.82	24.38
12H	4H	21.58	22.37	22.06	22.85	23.31	21.69	22.48	22.17	22.95	23.42
	6H	22.26	22.91	22.76	23.42	23.90	22.38	23.04	22.89	23.54	24.03
	8H	22.51	23.09	23.02	23.58	24.14	22.67	23.25	23.18	23.74	24.30