

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: P1585736

Luminaire Tested: 14CZSP-SB-49HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585736
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-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

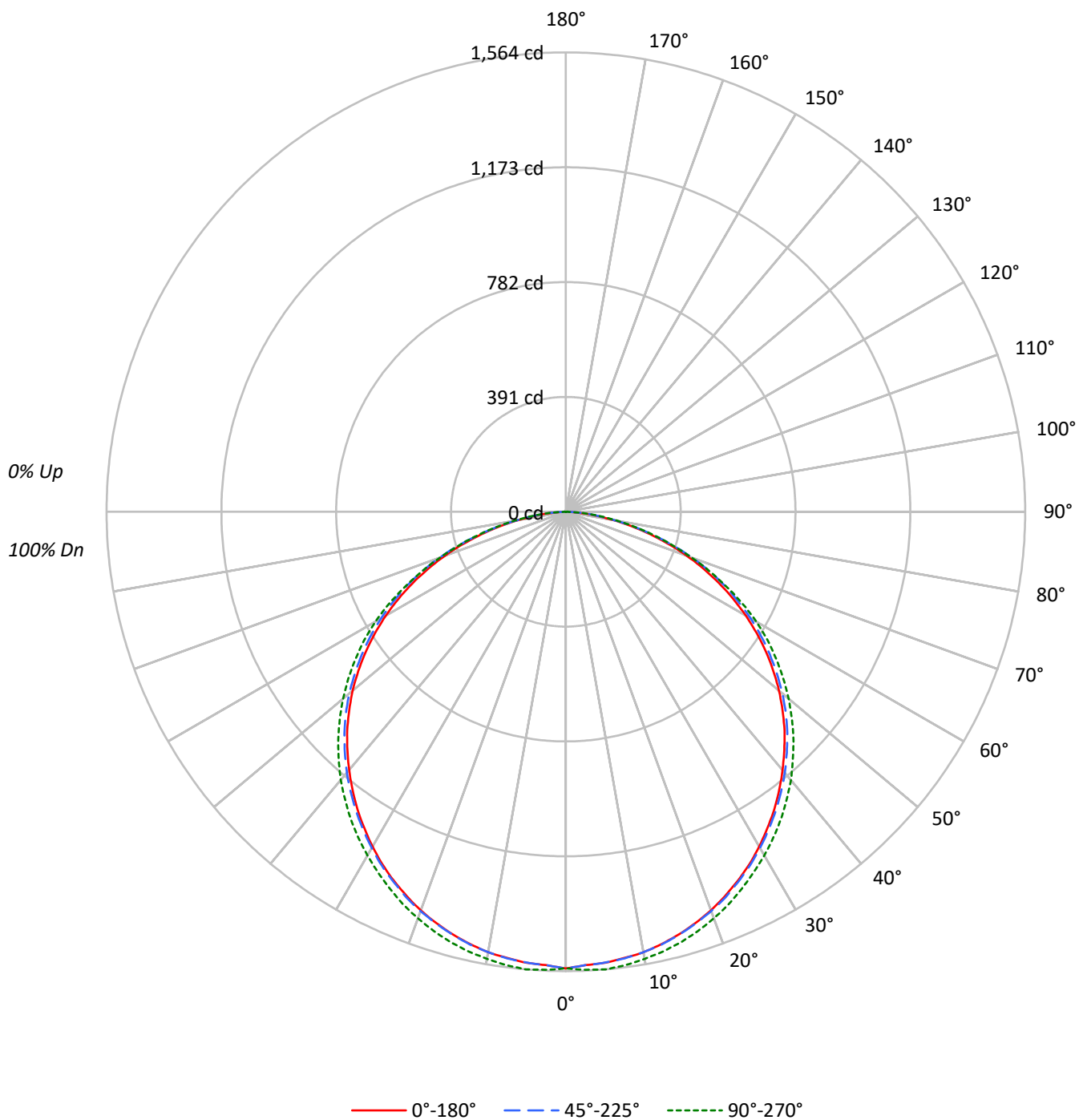
Lumens per Lamp: N/A
Luminaire Lumens: 4588.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5239	5239	5239
5°	5214	5211	5289
10°	5211	5209	5288
15°	5196	5201	5291
20°	5179	5189	5283
25°	5153	5166	5266
30°	5122	5144	5257
35°	5089	5121	5254
40°	5049	5102	5244
45°	5018	5082	5223
50°	4968	5046	5189
55°	4891	4982	5139
60°	4773	4895	5047
65°	4593	4767	4817
70°	4319	4520	4492
75°	3878	4042	4070
80°	3204	3367	3545
85°	2146	2498	2633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5223 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.2
10°-20°	423.5	9.2
20°-30°	645.0	14.1
30°-40°	785.0	17.1
40°-50°	827.5	18.0
50°-60°	762.2	16.6
60°-70°	588.7	12.8
70°-80°	329.4	7.2
80°-90°	79.4	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°	1215.9	26.5
0°-40°	2000.8	43.6
0°-60°	3590.5	78.3
0°-90°	4588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1541	1563	1541	1543	1564	147
15°	1489	1510	1491	1499	1517	420
25°	1386	1406	1390	1399	1416	639
35°	1237	1255	1245	1260	1277	774
45°	1053	1068	1066	1083	1096	811
55°	832	847	848	866	875	743
65°	576	593	598	604	604	569
75°	298	316	310	310	313	316
85°	56	61	65	72	68	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.7	1554.7	1554.7	1554.7	1554.7
2.5°	1544.9	1567.4	1544.9	1548.4	1561.0
5°	1541.4	1563.1	1540.7	1542.8	1563.8
7.5°	1532.2	1554.7	1533.6	1536.4	1556.8
10°	1523.1	1543.5	1522.4	1525.9	1545.6
12.5°	1507.6	1528.7	1509.0	1513.3	1532.9
15°	1489.4	1509.7	1490.8	1499.2	1516.8
17.5°	1468.3	1488.0	1469.7	1479.5	1496.4
20°	1444.4	1463.4	1447.2	1454.2	1473.2
22.5°	1416.3	1436.0	1420.5	1426.8	1447.2
25°	1386.1	1405.8	1389.6	1398.7	1416.3
27.5°	1353.1	1372.0	1358.0	1369.2	1384.7
30°	1316.5	1334.8	1322.2	1335.5	1351.0
32.5°	1277.2	1296.9	1284.2	1299.7	1315.1
35°	1237.2	1255.4	1244.9	1260.3	1277.2
37.5°	1193.6	1211.2	1203.4	1219.6	1235.1
40°	1147.9	1167.6	1159.9	1176.7	1192.2
42.5°	1100.9	1119.8	1113.5	1131.1	1144.4
45°	1053.1	1067.8	1066.4	1082.6	1096.0
47.5°	1000.4	1018.7	1015.9	1032.0	1044.0
50°	947.7	962.5	962.5	977.9	989.9
52.5°	890.8	905.6	905.6	923.8	933.7
55°	832.5	846.6	848.0	865.5	874.7
57.5°	770.7	785.4	788.2	805.8	814.2
60°	708.2	722.2	726.4	744.0	748.9
62.5°	642.8	659.7	661.8	675.8	678.6
65°	576.1	592.9	597.9	603.5	604.2
67.5°	507.9	525.5	530.4	530.4	530.4
70°	438.4	454.5	458.8	455.9	455.9
72.5°	368.1	385.7	383.6	380.8	382.2
75°	297.9	316.1	310.5	309.8	312.6
77.5°	230.4	248.0	238.9	244.5	245.2
80°	165.1	178.4	173.5	182.0	182.7
82.5°	106.1	114.5	115.9	122.9	120.8
85°	55.5	61.1	64.6	72.4	68.1
87.5°	17.6	23.2	21.1	24.6	19.0
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	17.79	19.44	18.15	19.76	20.07	18.00	19.66	18.37	19.97	20.29
	3H	19.61	21.11	19.99	21.43	21.79	19.80	21.30	20.18	21.63	21.99
	4H	20.26	21.67	20.65	22.02	22.39	20.44	21.86	20.84	22.20	22.58
	6H	20.68	21.99	21.09	22.36	22.75	20.90	22.21	21.31	22.57	22.96
	8H	20.79	22.04	21.22	22.43	22.83	21.03	22.28	21.45	22.67	23.07
	12H	20.85	22.05	21.28	22.43	22.86	21.10	22.30	21.53	22.68	23.11
4H	2H	18.47	19.88	18.87	20.23	20.60	18.64	20.05	19.04	20.40	20.77
	3H	20.51	21.69	20.92	22.09	22.49	20.65	21.84	21.06	22.23	22.63
	4H	21.29	22.36	21.72	22.77	23.21	21.41	22.48	21.84	22.89	23.33
	6H	21.84	22.78	22.29	23.22	23.67	21.98	22.92	22.44	23.36	23.82
	8H	21.98	22.86	22.44	23.30	23.77	22.16	23.04	22.62	23.48	23.94
	12H	22.07	22.86	22.55	23.33	23.80	22.27	23.06	22.75	23.54	24.00
8H	4H	21.60	22.47	22.06	22.92	23.38	21.70	22.58	22.16	23.02	23.49
	6H	22.26	22.98	22.75	23.47	23.95	22.39	23.11	22.88	23.60	24.08
	8H	22.46	23.11	22.97	23.62	24.10	22.62	23.28	23.13	23.78	24.27
	12H	22.60	23.17	23.10	23.66	24.22	22.80	23.38	23.31	23.87	24.43
12H	4H	21.63	22.42	22.11	22.89	23.36	21.73	22.52	22.21	23.00	23.46
	6H	22.30	22.96	22.81	23.46	23.95	22.43	23.08	22.94	23.59	24.07
	8H	22.56	23.13	23.06	23.62	24.18	22.72	23.29	23.22	23.78	24.34