

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: P1585740

Luminaire Tested: 14CZSP-SB-49HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585740
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

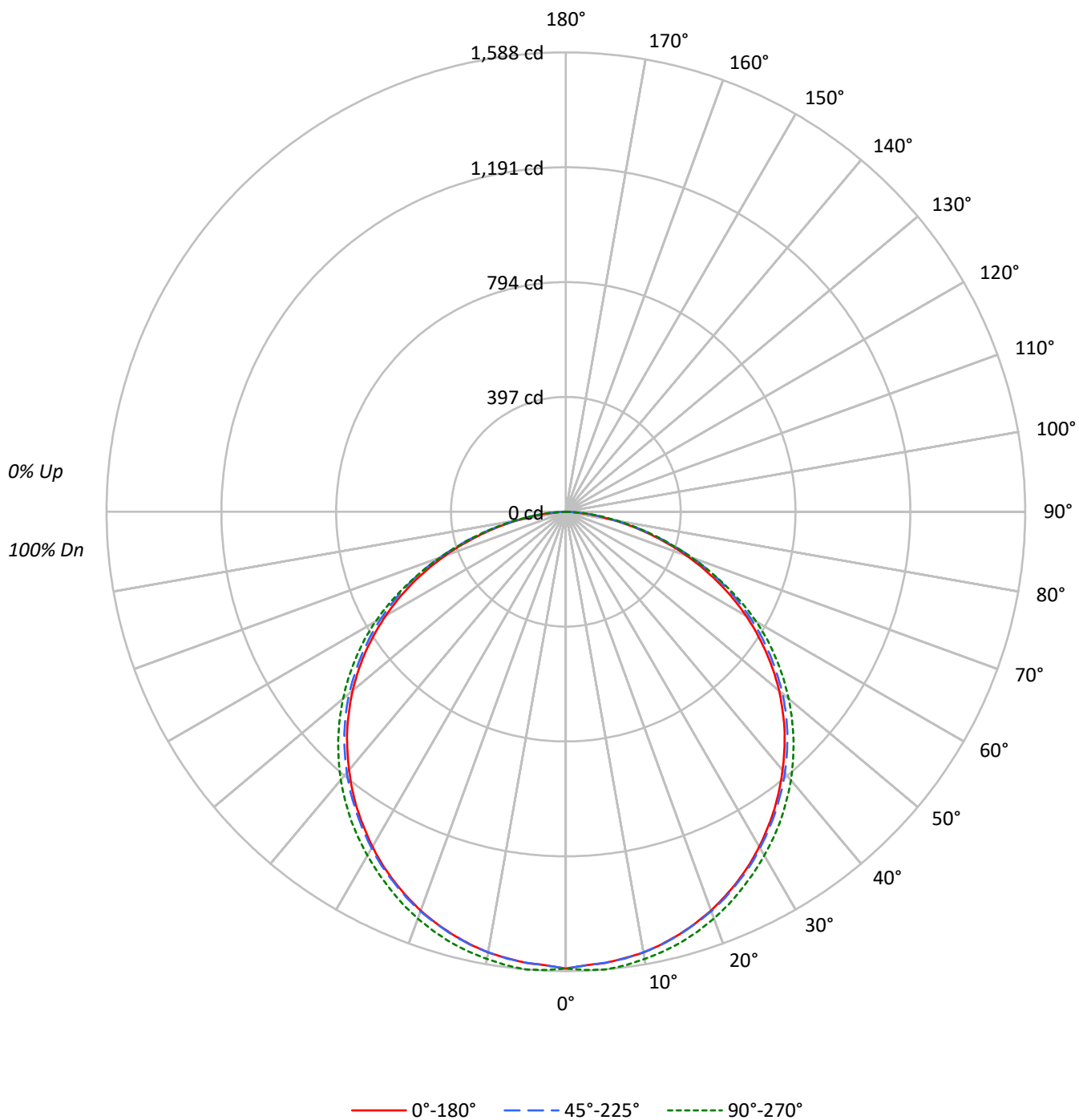
Lumens per Lamp: N/A
Luminaire Lumens: 4660.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5321	5321	5321
5°	5295	5293	5373
10°	5293	5291	5371
15°	5277	5282	5374
20°	5261	5271	5365
25°	5234	5247	5348
30°	5203	5225	5339
35°	5169	5201	5336
40°	5129	5182	5326
45°	5097	5162	5304
50°	5046	5125	5270
55°	4968	5060	5219
60°	4847	4972	5126
65°	4665	4841	4893
70°	4387	4591	4562
75°	3938	4106	4134
80°	3254	3419	3600
85°	2181	2536	2675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5304 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.2
10°-20°	430.2	9.2
20°-30°	655.1	14.1
30°-40°	797.3	17.1
40°-50°	840.5	18.0
50°-60°	774.2	16.6
60°-70°	597.9	12.8
70°-80°	334.6	7.2
80°-90°	80.6	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°	1235.0	26.5
0°-40°	2032.2	43.6
0°-60°	3646.9	78.3
0°-90°	4660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1579	1579	1579	1579	1579	
5°	1566	1588	1565	1567	1588	149
15°	1513	1533	1514	1523	1541	427
25°	1408	1428	1411	1421	1438	649
35°	1257	1275	1264	1280	1297	786
45°	1070	1085	1083	1100	1113	824
55°	846	860	861	879	888	755
65°	585	602	607	613	614	578
75°	302	321	315	315	318	321
85°	56	62	66	74	69	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.1	1579.1	1579.1	1579.1	1579.1
2.5°	1569.1	1591.9	1569.1	1572.7	1585.5
5°	1565.5	1587.7	1564.8	1567.0	1588.4
7.5°	1556.3	1579.1	1557.7	1560.6	1581.2
10°	1547.0	1567.7	1546.3	1549.8	1569.8
12.5°	1531.3	1552.7	1532.7	1537.0	1557.0
15°	1512.7	1533.4	1514.2	1522.7	1540.6
17.5°	1491.3	1511.3	1492.8	1502.8	1519.9
20°	1467.1	1486.3	1469.9	1477.1	1496.3
22.5°	1438.5	1458.5	1442.8	1449.2	1469.9
25°	1407.8	1427.8	1411.4	1420.7	1438.5
27.5°	1374.3	1393.6	1379.3	1390.7	1406.4
30°	1337.2	1355.8	1342.9	1356.5	1372.2
32.5°	1297.2	1317.2	1304.4	1320.1	1335.8
35°	1256.6	1275.1	1264.4	1280.1	1297.2
37.5°	1212.3	1230.2	1222.3	1238.7	1254.4
40°	1166.0	1185.9	1178.1	1195.2	1210.9
42.5°	1118.1	1137.4	1131.0	1148.8	1162.4
45°	1069.6	1084.6	1083.2	1099.6	1113.1
47.5°	1016.1	1034.7	1031.8	1048.2	1060.3
50°	962.6	977.6	977.6	993.3	1005.4
52.5°	904.8	919.8	919.8	938.3	948.3
55°	845.6	859.8	861.3	879.1	888.4
57.5°	782.8	797.8	800.6	818.5	827.0
60°	719.3	733.5	737.8	755.7	760.7
62.5°	652.9	670.0	672.2	686.4	689.3
65°	585.1	602.2	607.2	612.9	613.7
67.5°	515.9	533.7	538.7	538.7	538.7
70°	445.3	461.7	466.0	463.1	463.1
72.5°	373.9	391.7	389.6	386.7	388.2
75°	302.5	321.1	315.4	314.7	317.5
77.5°	234.0	251.9	242.6	248.3	249.0
80°	167.7	181.2	176.2	184.8	185.5
82.5°	107.7	116.3	117.7	124.9	122.7
85°	56.4	62.1	65.6	73.5	69.2
87.5°	17.8	23.5	21.4	25.0	19.3
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	17.84	19.50	18.21	19.81	20.13	18.06	19.71	18.42	20.03	20.34
	3H	19.66	21.16	20.04	21.49	21.85	19.86	21.36	20.24	21.68	22.04
	4H	20.31	21.72	20.71	22.07	22.44	20.50	21.91	20.90	22.26	22.63
	6H	20.74	22.05	21.15	22.41	22.80	20.95	22.26	21.36	22.62	23.01
	8H	20.85	22.10	21.27	22.49	22.89	21.08	22.33	21.51	22.72	23.12
	12H	20.90	22.10	21.33	22.48	22.91	21.16	22.36	21.59	22.74	23.17
4H	2H	18.52	19.93	18.92	20.28	20.66	18.69	20.10	19.09	20.45	20.83
	3H	20.56	21.75	20.97	22.15	22.54	20.71	21.89	21.11	22.29	22.69
	4H	21.34	22.42	21.77	22.83	23.26	21.46	22.54	21.89	22.95	23.38
	6H	21.89	22.83	22.35	23.27	23.72	22.04	22.98	22.49	23.42	23.87
	8H	22.04	22.92	22.50	23.36	23.82	22.21	23.09	22.67	23.53	24.00
	12H	22.12	22.91	22.60	23.39	23.85	22.33	23.11	22.81	23.59	24.06
8H	4H	21.65	22.53	22.11	22.97	23.43	21.76	22.64	22.22	23.08	23.54
	6H	22.31	23.04	22.80	23.53	24.00	22.44	23.17	22.93	23.66	24.13
	8H	22.51	23.17	23.02	23.67	24.16	22.68	23.33	23.19	23.84	24.32
	12H	22.65	23.23	23.16	23.72	24.28	22.86	23.43	23.36	23.92	24.48
12H	4H	21.68	22.47	22.16	22.94	23.41	21.79	22.57	22.27	23.05	23.52
	6H	22.35	23.01	22.86	23.52	24.00	22.48	23.14	22.99	23.64	24.13
	8H	22.61	23.19	23.12	23.68	24.24	22.77	23.35	23.28	23.84	24.40