

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: P1585738

Luminaire Tested: 14CZSP-SB-49HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585738
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

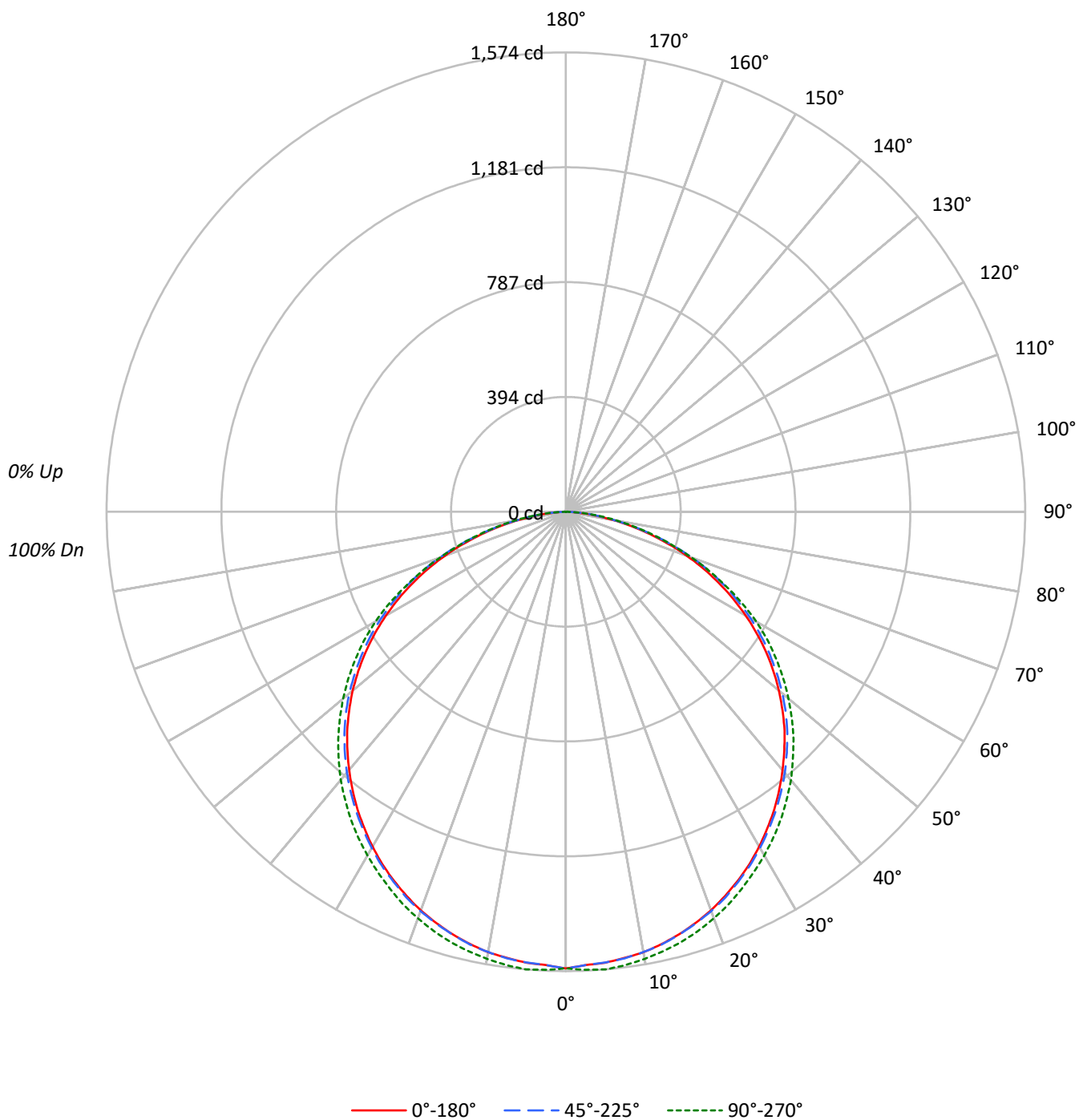
Lumens per Lamp: N/A
Luminaire Lumens: 4617.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5272	5272	5272
5°	5247	5244	5323
10°	5244	5242	5322
15°	5228	5233	5325
20°	5212	5222	5316
25°	5186	5199	5299
30°	5155	5177	5290
35°	5121	5153	5287
40°	5081	5134	5277
45°	5050	5114	5256
50°	4999	5078	5222
55°	4922	5013	5171
60°	4802	4926	5079
65°	4622	4797	4848
70°	4347	4549	4520
75°	3903	4068	4096
80°	3223	3388	3567
85°	2161	2513	2652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.2
10°-20°	426.2	9.2
20°-30°	649.1	14.1
30°-40°	789.9	17.1
40°-50°	832.8	18.0
50°-60°	767.0	16.6
60°-70°	592.4	12.8
70°-80°	331.5	7.2
80°-90°	79.9	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°	1223.6	26.5
0°-40°	2013.5	43.6
0°-60°	3613.3	78.3
0°-90°	4617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1551	1573	1550	1552	1574	147
15°	1499	1519	1500	1509	1526	423
25°	1395	1415	1398	1408	1425	643
35°	1245	1263	1253	1268	1285	779
45°	1060	1075	1073	1089	1103	817
55°	838	852	853	871	880	748
65°	580	597	602	607	608	573
75°	300	318	312	312	315	318
85°	56	62	65	73	69	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.5	1564.5	1564.5	1564.5	1564.5
2.5°	1554.6	1577.3	1554.6	1558.2	1570.9
5°	1551.1	1573.0	1550.4	1552.5	1573.7
7.5°	1541.9	1564.5	1543.3	1546.2	1566.7
10°	1532.7	1553.2	1532.0	1535.5	1555.3
12.5°	1517.2	1538.4	1518.6	1522.8	1542.6
15°	1498.8	1519.3	1500.2	1508.7	1526.4
17.5°	1477.6	1497.4	1479.0	1488.9	1505.9
20°	1453.5	1472.6	1456.4	1463.4	1482.5
22.5°	1425.3	1445.1	1429.5	1435.9	1456.4
25°	1394.9	1414.7	1398.4	1407.6	1425.3
27.5°	1361.6	1380.7	1366.6	1377.9	1393.4
30°	1324.9	1343.2	1330.5	1344.0	1359.5
32.5°	1285.3	1305.1	1292.3	1307.9	1323.5
35°	1245.0	1263.4	1252.8	1268.3	1285.3
37.5°	1201.1	1218.8	1211.0	1227.3	1242.9
40°	1155.2	1175.0	1167.2	1184.2	1199.7
42.5°	1107.8	1126.9	1120.6	1138.2	1151.7
45°	1059.8	1074.6	1073.2	1089.4	1102.9
47.5°	1006.7	1025.1	1022.3	1038.5	1050.6
50°	953.7	968.6	968.6	984.1	996.1
52.5°	896.4	911.3	911.3	929.7	939.6
55°	837.8	851.9	853.3	871.0	880.2
57.5°	775.5	790.4	793.2	810.9	819.4
60°	712.6	726.8	731.0	748.7	753.6
62.5°	646.9	663.8	666.0	680.1	682.9
65°	579.7	596.7	601.6	607.3	608.0
67.5°	511.1	528.8	533.8	533.8	533.8
70°	441.2	457.4	461.7	458.8	458.8
72.5°	370.5	388.1	386.0	383.2	384.6
75°	299.8	318.1	312.5	311.8	314.6
77.5°	231.9	249.6	240.4	246.0	246.7
80°	166.1	179.6	174.6	183.1	183.8
82.5°	106.8	115.2	116.7	123.7	121.6
85°	55.9	61.5	65.0	72.8	68.6
87.5°	17.7	23.3	21.2	24.7	19.1
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	17.81	19.47	18.18	19.78	20.09	18.03	19.68	18.39	20.00	20.31
	3H	19.63	21.13	20.01	21.46	21.82	19.83	21.33	20.20	21.65	22.01
	4H	20.28	21.69	20.68	22.04	22.41	20.47	21.88	20.86	22.22	22.60
	6H	20.71	22.02	21.12	22.38	22.77	20.92	22.23	21.33	22.59	22.98
	8H	20.82	22.07	21.24	22.46	22.85	21.05	22.30	21.47	22.69	23.09
	12H	20.87	22.07	21.30	22.45	22.88	21.13	22.32	21.55	22.71	23.13
4H	2H	18.49	19.90	18.89	20.25	20.62	18.66	20.07	19.06	20.42	20.79
	3H	20.53	21.72	20.94	22.11	22.51	20.67	21.86	21.08	22.26	22.65
	4H	21.31	22.38	21.74	22.80	23.23	21.43	22.50	21.86	22.92	23.35
	6H	21.86	22.80	22.31	23.24	23.69	22.01	22.94	22.46	23.38	23.84
	8H	22.01	22.88	22.47	23.33	23.79	22.18	23.06	22.64	23.50	23.96
	12H	22.09	22.88	22.57	23.35	23.82	22.29	23.08	22.77	23.56	24.03
8H	4H	21.62	22.50	22.08	22.94	23.40	21.73	22.60	22.19	23.05	23.51
	6H	22.28	23.01	22.77	23.49	23.97	22.41	23.14	22.90	23.62	24.10
	8H	22.48	23.14	22.99	23.64	24.13	22.65	23.30	23.15	23.81	24.29
	12H	22.62	23.19	23.12	23.68	24.24	22.82	23.40	23.33	23.89	24.45
12H	4H	21.65	22.44	22.13	22.91	23.38	21.75	22.54	22.23	23.02	23.49
	6H	22.32	22.98	22.83	23.48	23.97	22.45	23.10	22.96	23.61	24.09
	8H	22.58	23.16	23.08	23.65	24.21	22.74	23.32	23.25	23.81	24.37