

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: P1585732

Luminaire Tested: 14CZSP-SB-49HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585732
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

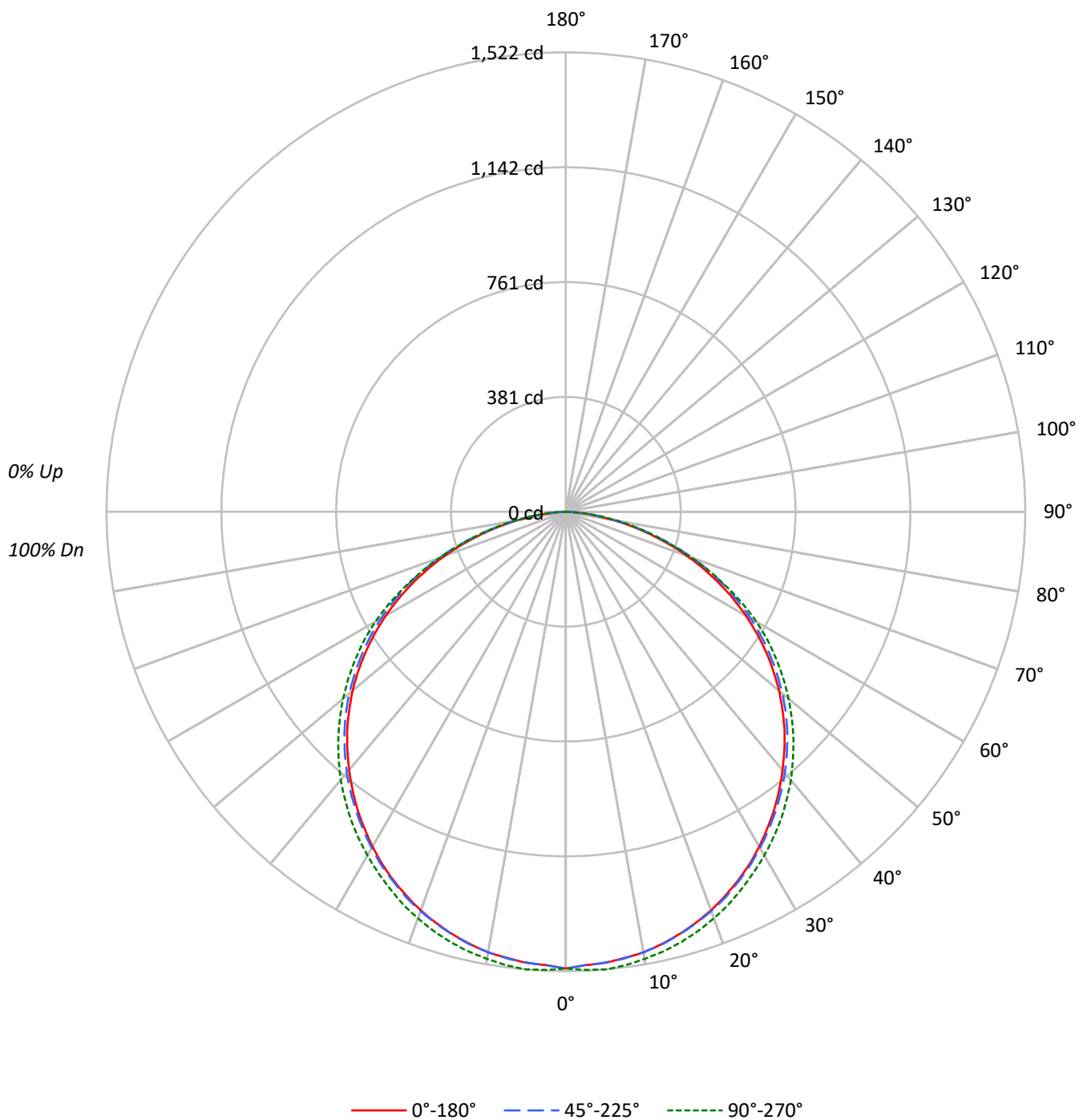
Lumens per Lamp: N/A
Luminaire Lumens: 4465.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5098	5098	5098
5°	5074	5072	5148
10°	5072	5069	5146
15°	5056	5061	5149
20°	5041	5050	5141
25°	5015	5028	5124
30°	4985	5006	5116
35°	4953	4983	5113
40°	4914	4965	5103
45°	4884	4946	5083
50°	4835	4910	5050
55°	4760	4848	5001
60°	4645	4764	4911
65°	4470	4639	4688
70°	4203	4399	4371
75°	3774	3934	3960
80°	3118	3277	3450
85°	2088	2432	2563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.2
10°-20°	412.2	9.2
20°-30°	627.7	14.1
30°-40°	763.9	17.1
40°-50°	805.3	18.0
50°-60°	741.8	16.6
60°-70°	572.9	12.8
70°-80°	320.6	7.2
80°-90°	77.3	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°	1183.3	26.5
0°-40°	1947.2	43.6
0°-60°	3494.3	78.3
0°-90°	4465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1500	1521	1499	1501	1522	143
15°	1449	1469	1451	1459	1476	409
25°	1349	1368	1352	1361	1378	622
35°	1204	1222	1212	1227	1243	753
45°	1025	1039	1038	1054	1067	790
55°	810	824	825	842	851	723
65°	561	577	582	587	588	554
75°	290	308	302	302	304	307
85°	54	60	63	70	66	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.0	1513.0	1513.0	1513.0	1513.0
2.5°	1503.5	1525.3	1503.5	1506.9	1519.2
5°	1500.0	1521.2	1499.4	1501.4	1521.9
7.5°	1491.1	1513.0	1492.5	1495.2	1515.1
10°	1482.3	1502.1	1481.6	1485.0	1504.1
12.5°	1467.2	1487.7	1468.6	1472.7	1491.8
15°	1449.4	1469.3	1450.8	1459.0	1476.1
17.5°	1428.9	1448.1	1430.3	1439.9	1456.3
20°	1405.7	1424.1	1408.4	1415.3	1433.7
22.5°	1378.3	1397.5	1382.4	1388.6	1408.4
25°	1348.9	1368.1	1352.4	1361.2	1378.3
27.5°	1316.8	1335.3	1321.6	1332.5	1347.6
30°	1281.3	1299.0	1286.7	1299.7	1314.8
32.5°	1243.0	1262.1	1249.8	1264.8	1279.9
35°	1204.0	1221.8	1211.5	1226.6	1243.0
37.5°	1161.6	1178.7	1171.2	1186.9	1201.9
40°	1117.2	1136.3	1128.8	1145.2	1160.2
42.5°	1071.4	1089.8	1083.7	1100.8	1113.7
45°	1024.9	1039.2	1037.9	1053.6	1066.6
47.5°	973.6	991.4	988.6	1004.4	1016.0
50°	922.3	936.7	936.7	951.7	963.3
52.5°	866.9	881.3	881.3	899.1	908.6
55°	810.2	823.9	825.2	842.3	851.2
57.5°	750.0	764.4	767.1	784.2	792.4
60°	689.2	702.8	706.9	724.0	728.8
62.5°	625.6	642.0	644.0	657.7	660.5
65°	560.6	577.0	581.8	587.3	588.0
67.5°	494.3	511.4	516.2	516.2	516.2
70°	426.6	442.4	446.5	443.7	443.7
72.5°	358.3	375.4	373.3	370.6	371.9
75°	289.9	307.7	302.2	301.5	304.2
77.5°	224.3	241.3	232.5	237.9	238.6
80°	160.7	173.7	168.9	177.1	177.8
82.5°	103.2	111.4	112.8	119.6	117.6
85°	54.0	59.5	62.9	70.4	66.3
87.5°	17.1	22.6	20.5	23.9	18.5
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	17.69	19.35	18.06	19.66	19.98	17.91	19.57	18.28	19.88	20.19
	3H	19.52	21.01	19.89	21.34	21.70	19.71	21.21	20.09	21.54	21.89
	4H	20.16	21.57	20.56	21.92	22.30	20.35	21.76	20.75	22.11	22.48
	6H	20.59	21.90	21.00	22.26	22.65	20.80	22.11	21.21	22.47	22.87
	8H	20.70	21.95	21.12	22.34	22.74	20.93	22.18	21.36	22.57	22.97
	12H	20.75	21.95	21.18	22.33	22.76	21.01	22.21	21.44	22.59	23.02
4H	2H	18.37	19.79	18.77	20.13	20.51	18.54	19.96	18.94	20.30	20.68
	3H	20.41	21.60	20.82	22.00	22.40	20.56	21.74	20.97	22.14	22.54
	4H	21.19	22.27	21.63	22.68	23.11	21.31	22.39	21.75	22.80	23.24
	6H	21.74	22.68	22.20	23.12	23.58	21.89	22.83	22.34	23.27	23.72
	8H	21.89	22.77	22.35	23.21	23.67	22.06	22.94	22.52	23.38	23.85
	12H	21.97	22.76	22.45	23.24	23.71	22.18	22.97	22.66	23.44	23.91
8H	4H	21.50	22.38	21.96	22.82	23.29	21.61	22.49	22.07	22.93	23.39
	6H	22.16	22.89	22.65	23.38	23.85	22.29	23.02	22.78	23.51	23.98
	8H	22.37	23.02	22.87	23.53	24.01	22.53	23.18	23.04	23.69	24.17
	12H	22.50	23.08	23.01	23.57	24.13	22.71	23.28	23.21	23.77	24.33
12H	4H	21.53	22.32	22.01	22.80	23.26	21.64	22.43	22.12	22.90	23.37
	6H	22.21	22.86	22.71	23.37	23.85	22.33	22.99	22.84	23.49	23.98
	8H	22.46	23.04	22.97	23.53	24.09	22.62	23.20	23.13	23.69	24.25