

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: P1585746

Luminaire Tested: 14CZSP-SB-49HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585746
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

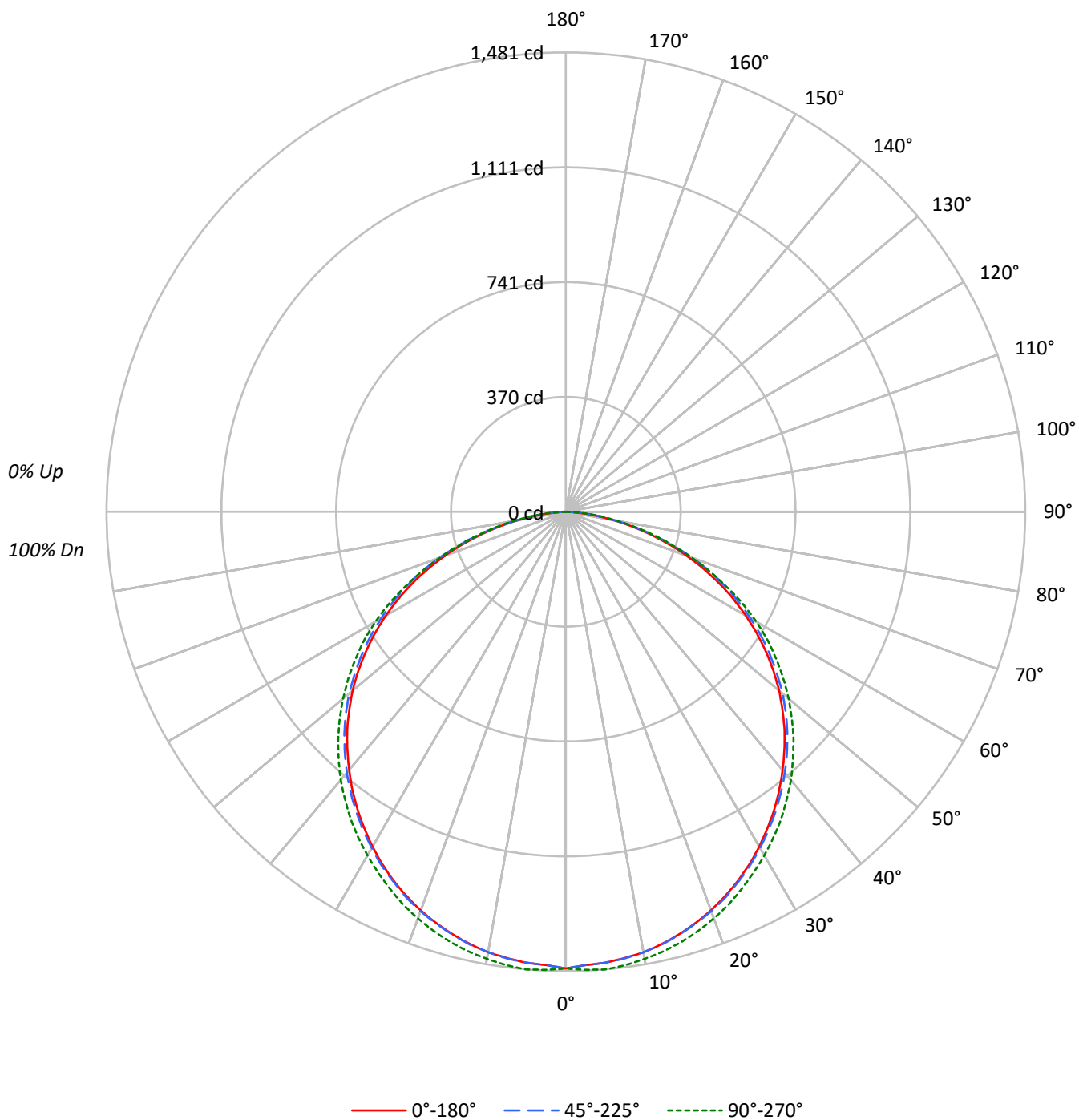
Lumens per Lamp: N/A
Luminaire Lumens: 4345.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4961	4961	4961
5°	4937	4935	5009
10°	4935	4933	5008
15°	4920	4925	5011
20°	4905	4915	5003
25°	4881	4893	4987
30°	4851	4872	4978
35°	4819	4850	4976
40°	4782	4832	4967
45°	4752	4813	4946
50°	4705	4778	4914
55°	4632	4717	4866
60°	4519	4636	4779
65°	4350	4514	4562
70°	4091	4281	4254
75°	3673	3829	3855
80°	3035	3188	3357
85°	2034	2366	2494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4946 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.2
10°-20°	401.1	9.2
20°-30°	610.8	14.1
30°-40°	743.4	17.1
40°-50°	783.7	18.0
50°-60°	721.8	16.6
60°-70°	557.5	12.8
70°-80°	312.0	7.2
80°-90°	75.2	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°	1151.5	26.5
0°-40°	1894.9	43.6
0°-60°	3400.4	78.3
0°-90°	4345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1460	1480	1459	1461	1481	139
15°	1410	1430	1412	1420	1436	398
25°	1313	1331	1316	1325	1341	605
35°	1172	1189	1179	1194	1210	733
45°	997	1011	1010	1025	1038	768
55°	788	802	803	820	828	704
65°	546	562	566	572	572	539
75°	282	299	294	293	296	299
85°	53	58	61	68	64	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.4	1472.4	1472.4	1472.4	1472.4
2.5°	1463.0	1484.3	1463.0	1466.4	1478.3
5°	1459.7	1480.3	1459.1	1461.1	1481.0
7.5°	1451.1	1472.4	1452.4	1455.1	1474.4
10°	1442.4	1461.7	1441.8	1445.1	1463.7
12.5°	1427.8	1447.7	1429.1	1433.1	1451.7
15°	1410.5	1429.8	1411.8	1419.8	1436.4
17.5°	1390.5	1409.2	1391.9	1401.2	1417.1
20°	1367.9	1385.9	1370.6	1377.2	1395.2
22.5°	1341.3	1359.9	1345.3	1351.3	1370.6
25°	1312.7	1331.3	1316.0	1324.7	1341.3
27.5°	1281.4	1299.4	1286.1	1296.7	1311.4
30°	1246.8	1264.1	1252.1	1264.8	1279.4
32.5°	1209.6	1228.2	1216.2	1230.8	1245.5
35°	1171.6	1188.9	1179.0	1193.6	1209.6
37.5°	1130.4	1147.0	1139.7	1155.0	1169.6
40°	1087.1	1105.8	1098.4	1114.4	1129.1
42.5°	1042.6	1060.5	1054.5	1071.2	1083.8
45°	997.3	1011.3	1010.0	1025.3	1037.9
47.5°	947.4	964.7	962.1	977.4	988.7
50°	897.5	911.5	911.5	926.1	937.4
52.5°	843.6	857.6	857.6	874.9	884.2
55°	788.4	801.7	803.0	819.7	828.3
57.5°	729.9	743.8	746.5	763.1	771.1
60°	670.6	684.0	687.9	704.6	709.2
62.5°	608.8	624.7	626.7	640.0	642.7
65°	545.6	561.5	566.2	571.5	572.2
67.5°	481.0	497.7	502.3	502.3	502.3
70°	415.2	430.5	434.5	431.8	431.8
72.5°	348.6	365.3	363.3	360.6	361.9
75°	282.1	299.4	294.1	293.4	296.1
77.5°	218.2	234.9	226.2	231.5	232.2
80°	156.4	169.0	164.3	172.3	173.0
82.5°	100.5	108.4	109.8	116.4	114.4
85°	52.6	57.9	61.2	68.5	64.5
87.5°	16.6	22.0	20.0	23.3	18.0
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	17.60	19.25	17.96	19.57	19.88	17.82	19.47	18.18	19.79	20.10
	3H	19.42	20.92	19.80	21.25	21.60	19.62	21.11	19.99	21.44	21.80
	4H	20.07	21.48	20.46	21.83	22.20	20.25	21.67	20.65	22.01	22.39
	6H	20.50	21.80	20.91	22.17	22.56	20.71	22.02	21.12	22.38	22.77
	8H	20.60	21.86	21.03	22.24	22.64	20.84	22.09	21.26	22.48	22.88
	12H	20.66	21.86	21.09	22.24	22.67	20.91	22.11	21.34	22.50	22.92
4H	2H	18.28	19.69	18.68	20.04	20.41	18.45	19.86	18.85	20.21	20.58
	3H	20.32	21.51	20.73	21.90	22.30	20.46	21.65	20.87	22.04	22.44
	4H	21.10	22.17	21.53	22.58	23.02	21.22	22.29	21.65	22.71	23.14
	6H	21.65	22.59	22.10	23.03	23.48	21.79	22.73	22.25	23.17	23.63
	8H	21.80	22.67	22.25	23.11	23.58	21.97	22.85	22.43	23.29	23.75
	12H	21.88	22.67	22.36	23.14	23.61	22.08	22.87	22.56	23.35	23.81
8H	4H	21.41	22.28	21.87	22.73	23.19	21.51	22.39	21.97	22.83	23.30
	6H	22.07	22.80	22.56	23.28	23.76	22.20	22.93	22.69	23.41	23.89
	8H	22.27	22.93	22.78	23.43	23.92	22.44	23.09	22.94	23.59	24.08
	12H	22.41	22.98	22.91	23.47	24.03	22.61	23.19	23.12	23.68	24.24
12H	4H	21.44	22.23	21.92	22.70	23.17	21.54	22.33	22.02	22.81	23.28
	6H	22.11	22.77	22.62	23.27	23.76	22.24	22.89	22.75	23.40	23.88
	8H	22.37	22.95	22.87	23.44	24.00	22.53	23.11	23.03	23.60	24.16