

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: P1585743

Luminaire Tested: 14CZSP-SB-49HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-49HE-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

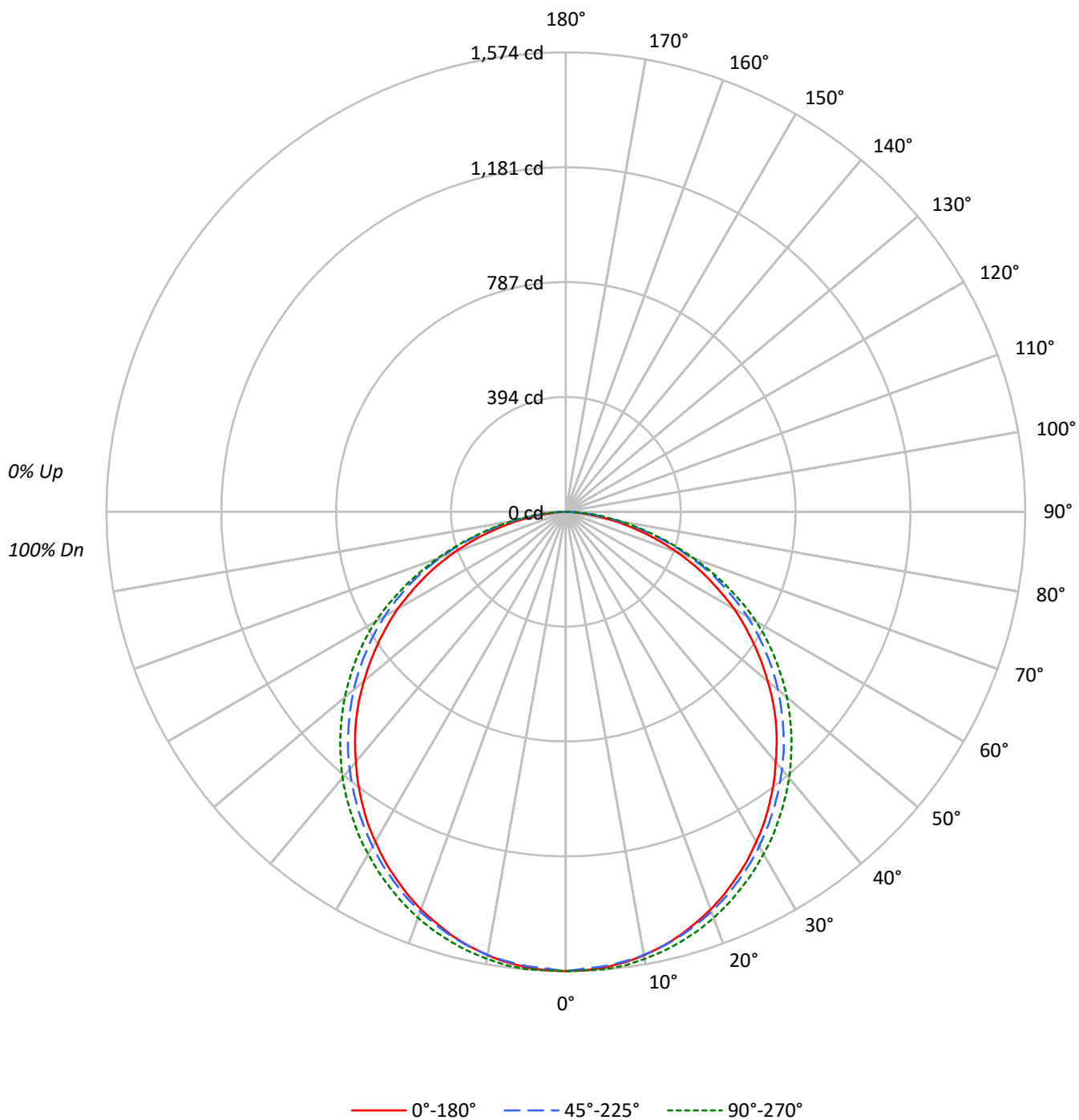
Lumens per Lamp: N/A
Luminaire Lumens: 4547.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5303	5303	5303
5°	5299	5286	5322
10°	5280	5275	5323
15°	5246	5257	5319
20°	5200	5230	5310
25°	5143	5192	5289
30°	5079	5153	5270
35°	5009	5111	5251
40°	4921	5068	5237
45°	4850	5022	5209
50°	4735	4975	5184
55°	4613	4910	5144
60°	4489	4838	5076
65°	4287	4711	4883
70°	4001	4497	4608
75°	3565	4076	4195
80°	2911	3534	3712
85°	1925	2811	3012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5209 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	427.0	9.4
20°-30°	646.5	14.2
30°-40°	780.3	17.2
40°-50°	814.9	17.9
50°-60°	745.5	16.4
60°-70°	576.3	12.7
70°-80°	326.3	7.2
80°-90°	81.1	1.8
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°	1222.6	26.9
0°-40°	2002.9	44.0
0°-60°	3563.3	78.4
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1567	1578	1563	1564	1573	149
15°	1504	1517	1507	1514	1525	424
25°	1383	1401	1396	1410	1423	638
35°	1218	1235	1242	1264	1276	762
45°	1018	1038	1054	1081	1093	784
55°	785	809	836	862	876	702
65°	538	560	591	608	612	531
75°	274	297	313	321	322	290
85°	50	58	73	76	78	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.9	1573.9	1573.9	1573.9	1573.9
2.5°	1571.9	1583.1	1566.0	1569.3	1572.6
5°	1566.7	1577.8	1562.8	1564.1	1573.3
7.5°	1556.9	1569.3	1553.6	1556.2	1567.4
10°	1543.1	1555.6	1541.8	1544.4	1555.6
12.5°	1525.4	1537.9	1526.1	1530.0	1542.5
15°	1503.8	1516.9	1507.1	1514.3	1524.8
17.5°	1477.6	1494.0	1483.5	1494.7	1505.1
20°	1450.1	1466.5	1458.6	1468.5	1480.9
22.5°	1418.7	1435.1	1429.2	1439.6	1453.4
25°	1383.3	1401.0	1396.4	1409.5	1422.6
27.5°	1346.6	1363.7	1362.4	1376.8	1390.5
30°	1305.4	1323.7	1324.4	1341.4	1354.5
32.5°	1264.1	1280.5	1284.4	1303.4	1318.5
35°	1217.6	1234.6	1242.5	1263.5	1276.5
37.5°	1170.4	1189.4	1198.0	1220.9	1234.6
40°	1118.7	1140.3	1152.1	1176.3	1190.7
42.5°	1069.6	1089.2	1104.9	1129.2	1142.3
45°	1017.8	1037.5	1053.9	1080.7	1093.2
47.5°	962.2	983.8	1001.5	1027.7	1041.4
50°	903.2	926.8	949.1	974.6	989.0
52.5°	844.9	867.8	893.4	918.3	932.7
55°	785.3	808.9	835.8	861.9	875.7
57.5°	725.1	748.6	778.1	801.7	816.1
60°	666.1	687.7	717.9	741.4	753.2
62.5°	599.3	624.2	655.0	678.6	685.1
65°	537.7	560.0	590.8	608.5	612.4
67.5°	472.2	494.5	525.3	535.1	541.0
70°	406.1	429.7	456.5	463.1	467.7
72.5°	339.3	363.5	384.5	391.0	395.0
75°	273.8	297.4	313.1	320.9	322.2
77.5°	210.2	231.9	246.3	255.4	255.4
80°	150.0	166.4	182.1	191.9	191.3
82.5°	95.6	108.1	124.4	131.7	136.2
85°	49.8	57.6	72.7	76.0	77.9
87.5°	15.7	20.3	26.2	21.6	21.0
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	17.48	19.13	17.84	19.44	19.75	18.02	19.67	18.38	19.98	20.30
	3H	19.25	20.74	19.63	21.07	21.43	19.88	21.37	20.25	21.70	22.06
	4H	19.87	21.28	20.27	21.63	22.00	20.55	21.96	20.95	22.30	22.68
	6H	20.28	21.58	20.69	21.95	22.34	21.03	22.34	21.45	22.70	23.09
	8H	20.38	21.63	20.80	22.01	22.41	21.19	22.44	21.62	22.83	23.23
	12H	20.43	21.62	20.86	22.00	22.43	21.29	22.48	21.72	22.87	23.29
4H	2H	18.22	19.62	18.61	19.97	20.35	18.64	20.04	19.03	20.39	20.77
	3H	20.21	21.39	20.62	21.79	22.19	20.72	21.90	21.12	22.29	22.69
	4H	20.96	22.03	21.39	22.44	22.87	21.52	22.59	21.95	23.00	23.43
	6H	21.48	22.41	21.93	22.85	23.31	22.13	23.07	22.58	23.51	23.96
	8H	21.61	22.49	22.07	22.93	23.39	22.33	23.21	22.79	23.65	24.12
	12H	21.69	22.47	22.17	22.95	23.42	22.47	23.26	22.95	23.74	24.20
8H	4H	21.31	22.19	21.77	22.63	23.09	21.81	22.68	22.27	23.12	23.59
	6H	21.94	22.67	22.44	23.16	23.63	22.54	23.27	23.03	23.75	24.23
	8H	22.14	22.79	22.65	23.30	23.78	22.81	23.46	23.32	23.97	24.46
	12H	22.26	22.84	22.77	23.33	23.89	23.02	23.59	23.52	24.08	24.64
12H	4H	21.35	22.14	21.83	22.61	23.08	21.83	22.62	22.31	23.09	23.56
	6H	22.01	22.66	22.52	23.17	23.65	22.58	23.23	23.09	23.74	24.22
	8H	22.26	22.83	22.76	23.32	23.88	22.91	23.48	23.41	23.97	24.53