

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: P1585744

Luminaire Tested: 14CZSP-SB-49HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585744
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

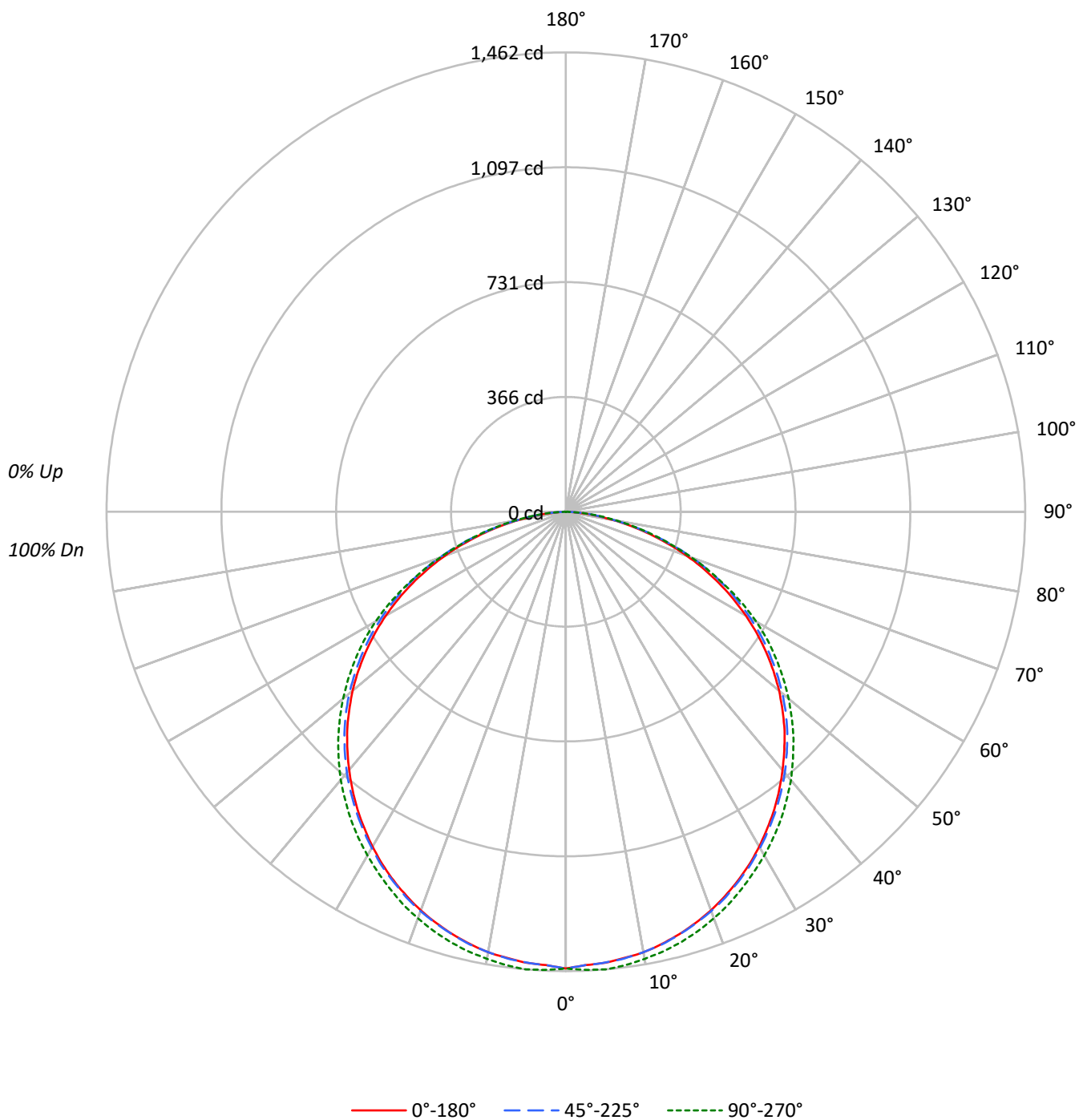
Lumens per Lamp: N/A
Luminaire Lumens: 4289.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4897	4897	4897
5°	4874	4871	4945
10°	4872	4870	4943
15°	4857	4861	4946
20°	4842	4851	4938
25°	4818	4830	4923
30°	4788	4809	4914
35°	4757	4787	4912
40°	4720	4769	4902
45°	4691	4751	4882
50°	4645	4716	4851
55°	4572	4657	4804
60°	4461	4577	4718
65°	4294	4456	4503
70°	4037	4226	4199
75°	3626	3779	3805
80°	2994	3147	3314
85°	2007	2335	2463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	3.2
10°-20°	395.9	9.2
20°-30°	603.0	14.1
30°-40°	733.8	17.1
40°-50°	773.6	18.0
50°-60°	712.5	16.6
60°-70°	550.3	12.8
70°-80°	307.9	7.2
80°-90°	74.2	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°	1136.6	26.5
0°-40°	1870.4	43.6
0°-60°	3356.6	78.3
0°-90°	4289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1441	1461	1440	1442	1462	137
15°	1392	1411	1394	1402	1418	393
25°	1296	1314	1299	1308	1324	597
35°	1156	1174	1164	1178	1194	723
45°	984	998	997	1012	1024	759
55°	778	791	793	809	818	695
65°	538	554	559	564	565	532
75°	278	296	290	290	292	295
85°	52	57	60	68	64	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1444.2	1465.2	1444.2	1447.5	1459.3
5°	1440.9	1461.3	1440.2	1442.2	1461.9
7.5°	1432.4	1453.4	1433.7	1436.3	1455.4
10°	1423.8	1442.9	1423.2	1426.5	1444.8
12.5°	1409.4	1429.1	1410.7	1414.6	1433.0
15°	1392.3	1411.4	1393.6	1401.5	1417.9
17.5°	1372.6	1391.0	1373.9	1383.1	1398.9
20°	1350.3	1368.0	1352.9	1359.5	1377.2
22.5°	1324.0	1342.4	1327.9	1333.9	1352.9
25°	1295.8	1314.2	1299.0	1307.6	1324.0
27.5°	1264.9	1282.6	1269.5	1280.0	1294.5
30°	1230.7	1247.8	1236.0	1248.5	1262.9
32.5°	1194.0	1212.4	1200.5	1215.0	1229.4
35°	1156.5	1173.6	1163.8	1178.2	1194.0
37.5°	1115.8	1132.2	1125.0	1140.1	1154.6
40°	1073.1	1091.5	1084.3	1100.1	1114.5
42.5°	1029.1	1046.9	1040.9	1057.4	1069.8
45°	984.5	998.3	996.9	1012.0	1024.5
47.5°	935.2	952.3	949.7	964.8	975.9
50°	886.0	899.7	899.7	914.2	925.4
52.5°	832.8	846.5	846.5	863.6	872.8
55°	778.2	791.4	792.7	809.1	817.7
57.5°	720.5	734.2	736.9	753.3	761.2
60°	662.0	675.1	679.1	695.5	700.1
62.5°	600.9	616.7	618.7	631.8	634.4
65°	538.5	554.3	558.9	564.1	564.8
67.5°	474.8	491.2	495.8	495.8	495.8
70°	409.8	424.9	428.9	426.2	426.2
72.5°	344.1	360.6	358.6	356.0	357.3
75°	278.5	295.5	290.3	289.6	292.3
77.5°	215.4	231.8	223.3	228.5	229.2
80°	154.3	166.8	162.2	170.1	170.8
82.5°	99.2	107.1	108.4	114.9	113.0
85°	51.9	57.1	60.4	67.6	63.7
87.5°	16.4	21.7	19.7	23.0	17.7
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	17.55	19.21	17.92	19.52	19.84	17.77	19.43	18.14	19.74	20.05
	3H	19.38	20.87	19.75	21.20	21.56	19.57	21.07	19.95	21.40	21.76
	4H	20.02	21.43	20.42	21.78	22.16	20.21	21.62	20.61	21.97	22.34
	6H	20.45	21.76	20.86	22.12	22.51	20.66	21.97	21.07	22.34	22.73
	8H	20.56	21.81	20.98	22.20	22.60	20.79	22.05	21.22	22.43	22.83
	12H	20.61	21.81	21.04	22.19	22.62	20.87	22.07	21.30	22.45	22.88
4H	2H	18.23	19.65	18.63	19.99	20.37	18.40	19.82	18.80	20.16	20.54
	3H	20.27	21.46	20.68	21.86	22.26	20.42	21.60	20.83	22.00	22.40
	4H	21.05	22.13	21.49	22.54	22.97	21.18	22.25	21.61	22.66	23.10
	6H	21.60	22.54	22.06	22.98	23.44	21.75	22.69	22.20	23.13	23.58
	8H	21.75	22.63	22.21	23.07	23.53	21.92	22.80	22.38	23.24	23.71
	12H	21.83	22.62	22.31	23.10	23.57	22.04	22.83	22.52	23.30	23.77
8H	4H	21.36	22.24	21.82	22.68	23.15	21.47	22.35	21.93	22.79	23.25
	6H	22.02	22.75	22.51	23.24	23.71	22.15	22.88	22.64	23.37	23.84
	8H	22.23	22.88	22.73	23.39	23.87	22.39	23.04	22.90	23.55	24.03
	12H	22.36	22.94	22.87	23.43	23.99	22.57	23.14	23.07	23.63	24.19
12H	4H	21.39	22.18	21.87	22.66	23.12	21.50	22.29	21.98	22.76	23.23
	6H	22.07	22.72	22.57	23.23	23.71	22.19	22.85	22.70	23.35	23.84
	8H	22.32	22.90	22.83	23.39	23.95	22.48	23.06	22.99	23.55	24.11