

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: P1585737

Luminaire Tested: 14CZSP-SB-49HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585737
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

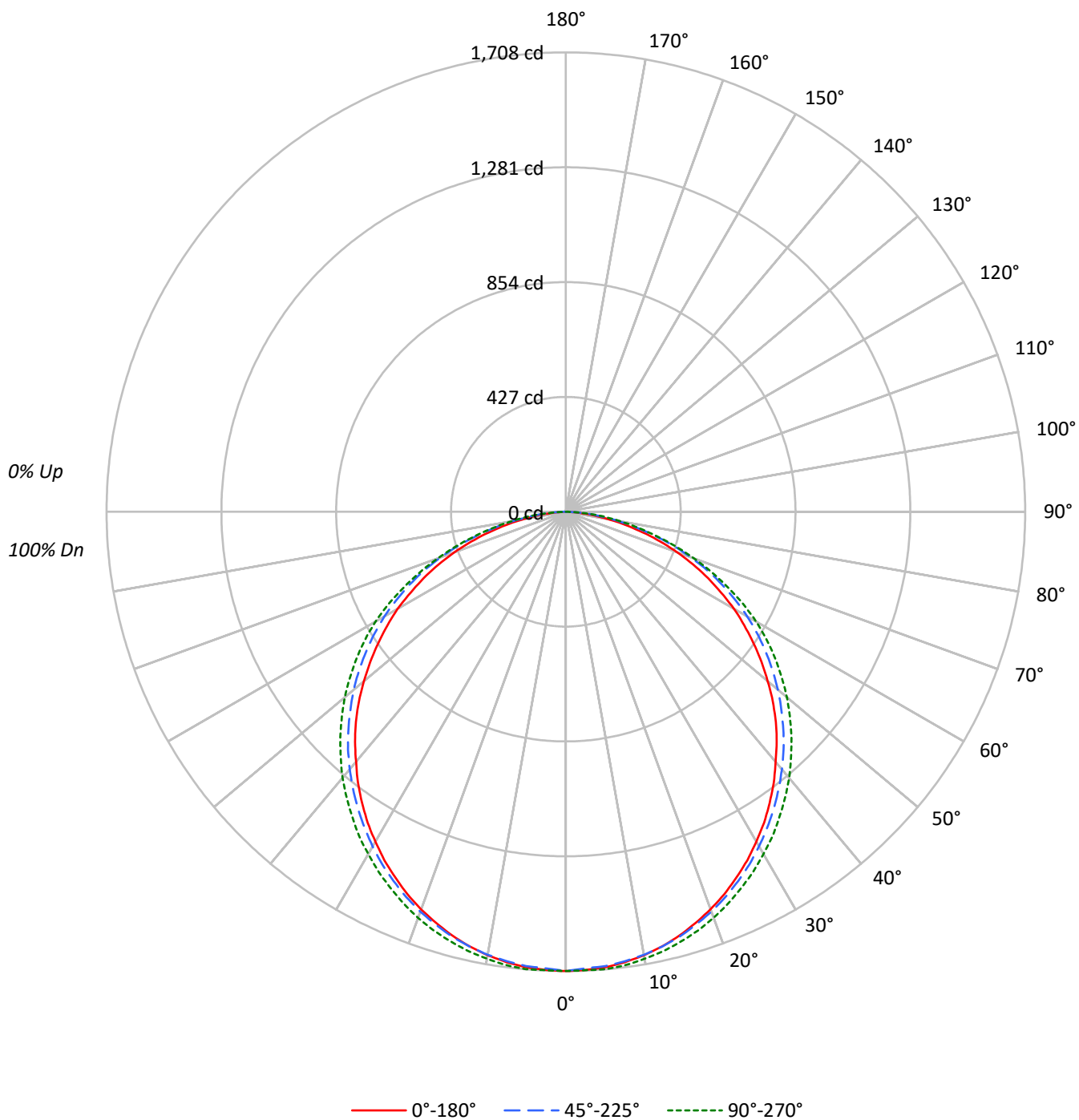
Lumens per Lamp: N/A
Luminaire Lumens: 4933.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5754	5754	5754
5°	5749	5735	5773
10°	5728	5723	5774
15°	5691	5704	5771
20°	5641	5675	5761
25°	5579	5633	5738
30°	5510	5590	5718
35°	5434	5545	5697
40°	5339	5498	5682
45°	5262	5448	5652
50°	5137	5397	5625
55°	5005	5327	5581
60°	4870	5248	5507
65°	4652	5110	5297
70°	4341	4880	4999
75°	3867	4423	4551
80°	3157	3832	4026
85°	2088	3050	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5652 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.3
10°-20°	463.3	9.4
20°-30°	701.4	14.2
30°-40°	846.6	17.2
40°-50°	884.1	17.9
50°-60°	808.8	16.4
60°-70°	625.3	12.7
70°-80°	354.0	7.2
80°-90°	87.9	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°	1326.3	26.9
0°-40°	2172.9	44.0
0°-60°	3865.8	78.4
0°-90°	4933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1700	1712	1695	1697	1707	161
15°	1632	1646	1635	1643	1654	460
25°	1501	1520	1515	1529	1543	692
35°	1321	1339	1348	1371	1385	826
45°	1104	1126	1143	1172	1186	850
55°	852	878	907	935	950	762
65°	583	608	641	660	664	576
75°	297	323	340	348	350	315
85°	54	62	79	82	85	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.5	1707.5	1707.5	1707.5	1707.5
2.5°	1705.4	1717.5	1699.0	1702.5	1706.1
5°	1699.7	1711.8	1695.4	1696.9	1706.8
7.5°	1689.0	1702.5	1685.5	1688.3	1700.4
10°	1674.1	1687.6	1672.7	1675.5	1687.6
12.5°	1654.9	1668.4	1655.6	1659.9	1673.4
15°	1631.5	1645.7	1635.0	1642.9	1654.2
17.5°	1603.1	1620.8	1609.5	1621.5	1632.9
20°	1573.2	1591.0	1582.5	1593.1	1606.6
22.5°	1539.1	1556.9	1550.5	1561.9	1576.8
25°	1500.7	1519.9	1515.0	1529.2	1543.4
27.5°	1460.9	1479.4	1478.0	1493.6	1508.6
30°	1416.2	1436.1	1436.8	1455.3	1469.5
32.5°	1371.4	1389.2	1393.4	1414.1	1430.4
35°	1321.0	1339.4	1348.0	1370.7	1384.9
37.5°	1269.8	1290.4	1299.6	1324.5	1339.4
40°	1213.7	1237.1	1249.9	1276.2	1291.8
42.5°	1160.4	1181.7	1198.7	1225.0	1239.2
45°	1104.2	1125.6	1143.3	1172.5	1186.0
47.5°	1043.8	1067.3	1086.5	1114.9	1129.8
50°	979.9	1005.5	1029.6	1057.3	1073.0
52.5°	916.6	941.5	969.2	996.2	1011.9
55°	852.0	877.6	906.7	935.1	950.0
57.5°	786.6	812.2	844.2	869.7	885.4
60°	722.7	746.1	778.8	804.4	817.2
62.5°	650.2	677.2	710.6	736.2	743.3
65°	583.4	607.5	640.9	660.1	664.4
67.5°	512.3	536.5	569.9	580.5	586.9
70°	440.6	466.1	495.3	502.4	507.4
72.5°	368.1	394.4	417.1	424.2	428.5
75°	297.0	322.6	339.7	348.2	349.6
77.5°	228.1	251.5	267.2	277.1	277.1
80°	162.7	180.5	197.5	208.2	207.5
82.5°	103.7	117.2	135.0	142.8	147.8
85°	54.0	62.5	78.9	82.4	84.6
87.5°	17.1	22.0	28.4	23.4	22.7
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	17.76	19.41	18.12	19.72	20.04	18.30	19.95	18.67	20.26	20.58
	3H	19.53	21.03	19.91	21.35	21.71	20.16	21.65	20.54	21.98	22.34
	4H	20.16	21.56	20.55	21.91	22.29	20.83	22.24	21.23	22.59	22.96
	6H	20.56	21.87	20.97	22.23	22.62	21.32	22.62	21.73	22.99	23.38
	8H	20.66	21.91	21.09	22.30	22.70	21.47	22.72	21.90	23.11	23.51
	12H	20.71	21.91	21.14	22.29	22.72	21.57	22.77	22.00	23.15	23.58
4H	2H	18.50	19.91	18.90	20.25	20.63	18.92	20.33	19.32	20.67	21.05
	3H	20.49	21.67	20.90	22.07	22.47	21.00	22.18	21.41	22.58	22.98
	4H	21.24	22.31	21.67	22.72	23.16	21.80	22.87	22.23	23.28	23.72
	6H	21.76	22.69	22.21	23.13	23.59	22.41	23.35	22.87	23.79	24.24
	8H	21.89	22.77	22.35	23.21	23.68	22.62	23.49	23.08	23.93	24.40
	12H	21.97	22.76	22.45	23.23	23.70	22.76	23.54	23.24	24.02	24.49
8H	4H	21.59	22.47	22.05	22.91	23.38	22.09	22.96	22.55	23.41	23.87
	6H	22.23	22.95	22.72	23.44	23.92	22.82	23.55	23.31	24.04	24.51
	8H	22.42	23.07	22.93	23.58	24.06	23.09	23.75	23.60	24.25	24.74
	12H	22.55	23.12	23.05	23.61	24.17	23.30	23.88	23.81	24.37	24.93
12H	4H	21.64	22.42	22.12	22.90	23.37	22.11	22.90	22.59	23.38	23.84
	6H	22.29	22.95	22.80	23.45	23.94	22.86	23.52	23.37	24.02	24.51
	8H	22.54	23.12	23.05	23.61	24.17	23.19	23.77	23.70	24.26	24.82

END OF REPORT