

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: P1585735

Luminaire Tested: 14CZSP-SB-49HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585735
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

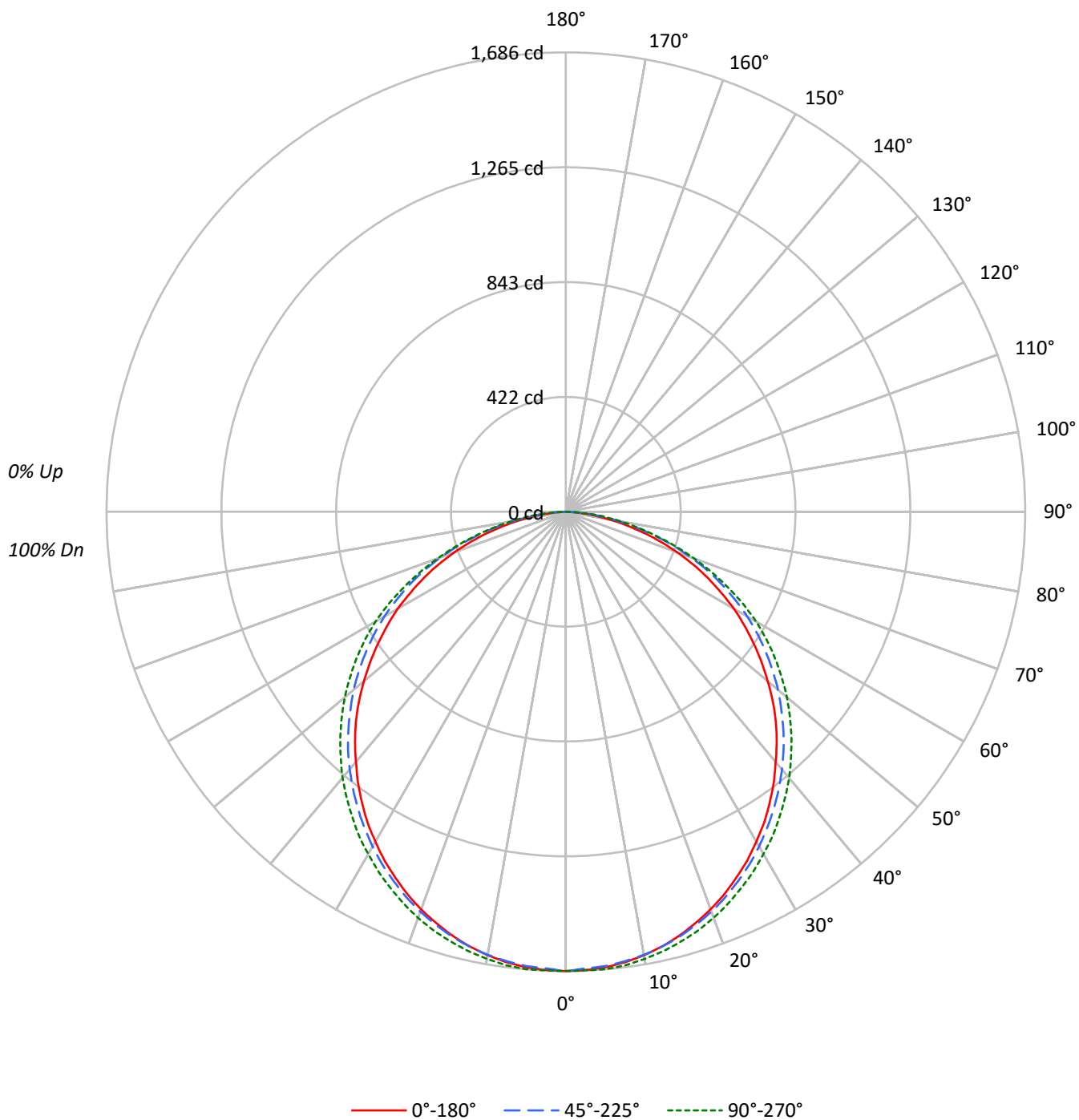
Lumens per Lamp: N/A
Luminaire Lumens: 4870.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5680	5680	5680
5°	5676	5662	5699
10°	5655	5650	5701
15°	5619	5631	5697
20°	5569	5602	5687
25°	5508	5561	5665
30°	5440	5519	5644
35°	5364	5474	5624
40°	5270	5428	5610
45°	5195	5379	5579
50°	5071	5329	5553
55°	4941	5258	5510
60°	4808	5181	5436
65°	4592	5045	5230
70°	4285	4817	4935
75°	3817	4365	4493
80°	3116	3784	3974
85°	2061	3012	3228

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	3.3
10°-20°	457.3	9.4
20°-30°	692.4	14.2
30°-40°	835.8	17.2
40°-50°	872.8	17.9
50°-60°	798.5	16.4
60°-70°	617.3	12.7
70°-80°	349.5	7.2
80°-90°	86.8	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°	1309.4	26.9
0°-40°	2145.2	44.0
0°-60°	3816.5	78.4
0°-90°	4870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1678	1690	1674	1675	1685	159
15°	1611	1625	1614	1622	1633	454
25°	1482	1500	1496	1510	1524	683
35°	1304	1322	1331	1353	1367	816
45°	1090	1111	1129	1158	1171	840
55°	841	866	895	923	938	752
65°	576	600	633	652	656	568
75°	293	318	335	344	345	311
85°	53	62	78	81	84	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.7	1685.7	1685.7	1685.7	1685.7
2.5°	1683.6	1695.5	1677.3	1680.8	1684.3
5°	1678.0	1689.9	1673.8	1675.2	1685.0
7.5°	1667.5	1680.8	1664.0	1666.8	1678.7
10°	1652.7	1666.1	1651.3	1654.1	1666.1
12.5°	1633.8	1647.1	1634.5	1638.7	1652.0
15°	1610.7	1624.7	1614.2	1621.9	1633.1
17.5°	1582.6	1600.1	1588.9	1600.8	1612.1
20°	1553.1	1570.7	1562.2	1572.8	1586.1
22.5°	1519.5	1537.0	1530.7	1541.9	1556.6
25°	1481.6	1500.5	1495.6	1509.6	1523.7
27.5°	1442.3	1460.5	1459.1	1474.6	1489.3
30°	1398.1	1417.7	1418.4	1436.7	1450.7
32.5°	1353.9	1371.4	1375.6	1396.0	1412.1
35°	1304.1	1322.3	1330.8	1353.2	1367.2
37.5°	1253.6	1273.9	1283.1	1307.6	1322.3
40°	1198.2	1221.3	1233.9	1259.9	1275.3
42.5°	1145.6	1166.6	1183.4	1209.4	1223.4
45°	1090.1	1111.2	1128.7	1157.5	1170.8
47.5°	1030.5	1053.7	1072.6	1100.7	1115.4
50°	967.4	992.6	1016.5	1043.8	1059.3
52.5°	904.9	929.5	956.9	983.5	998.9
55°	841.1	866.4	895.1	923.2	937.9
57.5°	776.6	801.8	833.4	858.6	874.1
60°	713.4	736.6	768.8	794.1	806.7
62.5°	641.9	668.5	701.5	726.8	733.8
65°	575.9	599.8	632.8	651.7	655.9
67.5°	505.8	529.6	562.6	573.1	579.4
70°	434.9	460.2	488.9	496.0	500.9
72.5°	363.4	389.3	411.8	418.8	423.0
75°	293.2	318.5	335.3	343.7	345.1
77.5°	225.2	248.3	263.8	273.6	273.6
80°	160.6	178.2	195.0	205.5	204.8
82.5°	102.4	115.7	133.3	141.0	145.9
85°	53.3	61.7	77.9	81.4	83.5
87.5°	16.8	21.7	28.1	23.1	22.4
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	17.71	19.37	18.08	19.68	19.99	18.26	19.91	18.62	20.22	20.53
	3H	19.49	20.98	19.86	21.31	21.67	20.12	21.61	20.49	21.94	22.30
	4H	20.11	21.52	20.51	21.87	22.24	20.79	22.20	21.19	22.54	22.92
	6H	20.52	21.82	20.93	22.19	22.58	21.27	22.58	21.68	22.94	23.33
	8H	20.62	21.86	21.04	22.25	22.65	21.43	22.68	21.85	23.07	23.46
	12H	20.67	21.86	21.09	22.24	22.67	21.53	22.72	21.96	23.10	23.53
4H	2H	18.45	19.86	18.85	20.21	20.58	18.88	20.28	19.27	20.63	21.01
	3H	20.45	21.63	20.86	22.02	22.42	20.95	22.14	21.36	22.53	22.93
	4H	21.20	22.26	21.63	22.68	23.11	21.75	22.82	22.19	23.24	23.67
	6H	21.71	22.65	22.17	23.09	23.54	22.37	23.30	22.82	23.74	24.20
	8H	21.85	22.72	22.31	23.17	23.63	22.57	23.45	23.03	23.89	24.35
	12H	21.93	22.71	22.41	23.19	23.66	22.71	23.50	23.19	23.97	24.44
8H	4H	21.55	22.43	22.01	22.87	23.33	22.04	22.92	22.50	23.36	23.83
	6H	22.18	22.91	22.68	23.40	23.87	22.78	23.50	23.27	23.99	24.47
	8H	22.38	23.03	22.89	23.53	24.02	23.05	23.70	23.56	24.21	24.69
	12H	22.50	23.08	23.01	23.57	24.13	23.26	23.83	23.76	24.32	24.88
12H	4H	21.59	22.38	22.07	22.85	23.32	22.07	22.86	22.55	23.33	23.80
	6H	22.25	22.90	22.76	23.41	23.89	22.82	23.47	23.33	23.98	24.46
	8H	22.50	23.07	23.00	23.56	24.12	23.15	23.72	23.65	24.21	24.77