

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: P1585741

Luminaire Tested: 14CZSP-SB-49HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585741
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-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

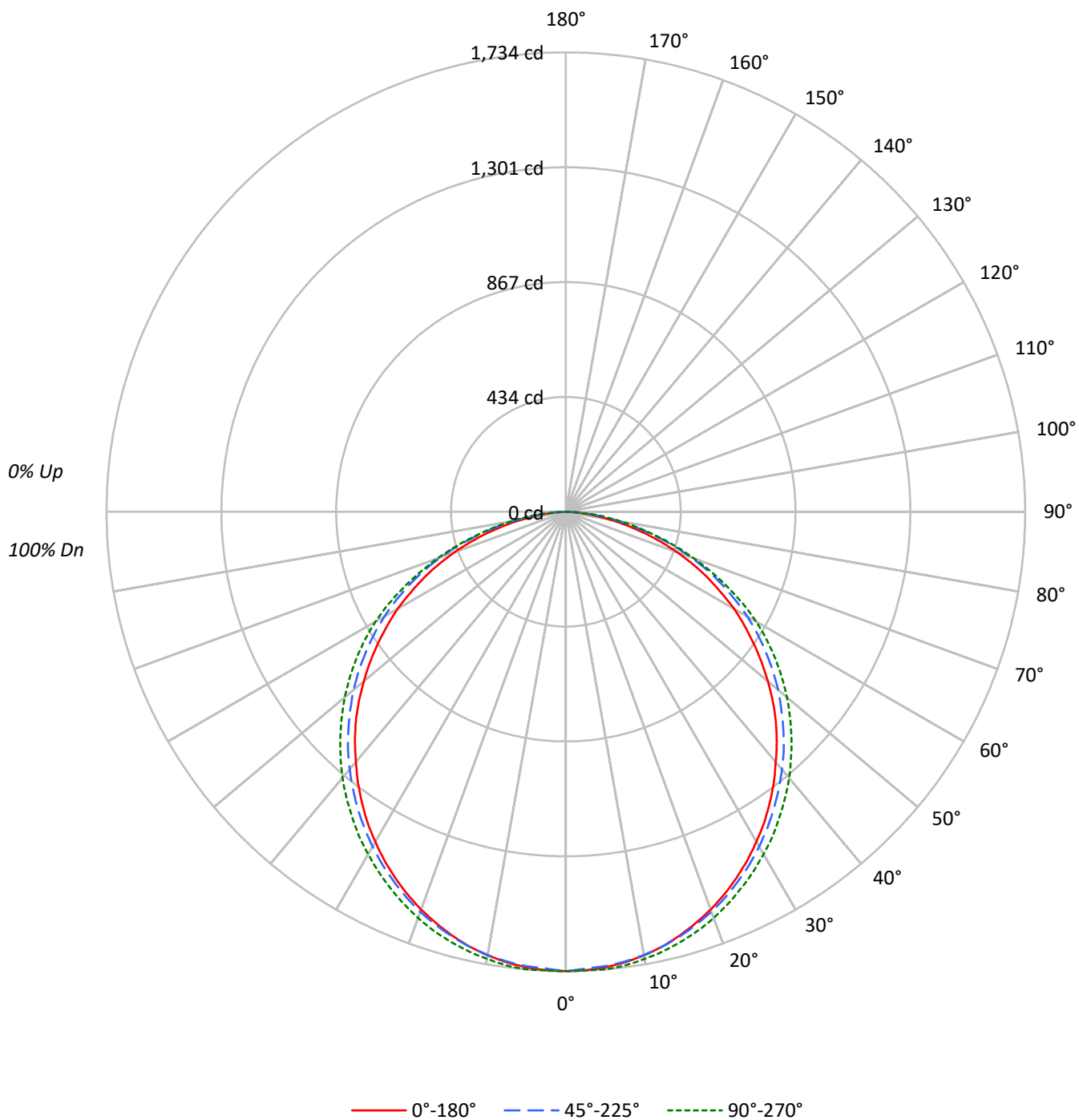
Lumens per Lamp: N/A
Luminaire Lumens: 5010.0 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	5844	5844	5844
5°	5839	5824	5863
10°	5818	5813	5865
15°	5780	5793	5861
20°	5729	5763	5851
25°	5667	5720	5828
30°	5596	5678	5807
35°	5519	5631	5786
40°	5422	5584	5771
45°	5344	5533	5740
50°	5217	5482	5712
55°	5083	5410	5668
60°	4946	5331	5593
65°	4724	5190	5380
70°	4408	4956	5077
75°	3928	4492	4623
80°	3208	3893	4089
85°	2119	3097	3321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.3
10°-20°	470.5	9.4
20°-30°	712.3	14.2
30°-40°	859.8	17.2
40°-50°	897.9	17.9
50°-60°	821.4	16.4
60°-70°	635.0	12.7
70°-80°	359.5	7.2
80°-90°	89.3	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°	1347.1	26.9
0°-40°	2206.9	44.0
0°-60°	3926.2	78.4
0°-90°	5010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1726	1738	1722	1723	1734	164
15°	1657	1671	1661	1668	1680	467
25°	1524	1544	1539	1553	1568	702
35°	1342	1360	1369	1392	1406	839
45°	1122	1143	1161	1191	1204	864
55°	865	891	921	950	965	774
65°	592	617	651	670	675	585
75°	302	328	345	354	355	320
85°	55	64	80	84	86	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1732.0	1744.3	1725.5	1729.1	1732.7
5°	1726.2	1738.5	1721.9	1723.3	1733.5
7.5°	1715.4	1729.1	1711.8	1714.7	1727.0
10°	1700.3	1714.0	1698.8	1701.7	1714.0
12.5°	1680.8	1694.5	1681.5	1685.8	1699.5
15°	1657.0	1671.4	1660.6	1668.5	1680.0
17.5°	1628.1	1646.1	1634.6	1646.9	1658.4
20°	1597.8	1615.8	1607.2	1618.0	1631.7
22.5°	1563.1	1581.2	1574.7	1586.2	1601.4
25°	1524.2	1543.7	1538.6	1553.0	1567.5
27.5°	1483.8	1502.5	1501.1	1517.0	1532.1
30°	1438.3	1458.5	1459.2	1478.0	1492.4
32.5°	1392.8	1410.9	1415.2	1436.1	1452.7
35°	1341.6	1360.3	1369.0	1392.1	1406.5
37.5°	1289.6	1310.6	1319.9	1345.2	1360.3
40°	1232.6	1256.4	1269.4	1296.1	1312.0
42.5°	1178.5	1200.1	1217.5	1244.2	1258.6
45°	1121.5	1143.1	1161.2	1190.8	1204.5
47.5°	1060.1	1083.9	1103.4	1132.3	1147.5
50°	995.2	1021.2	1045.7	1073.8	1089.7
52.5°	931.0	956.2	984.4	1011.8	1027.7
55°	865.3	891.3	920.9	949.7	964.9
57.5°	798.9	824.9	857.3	883.3	899.2
60°	733.9	757.8	791.0	816.9	829.9
62.5°	660.3	687.8	721.7	747.7	754.9
65°	592.5	617.0	650.9	670.4	674.8
67.5°	520.3	544.9	578.8	589.6	596.1
70°	447.4	473.4	503.0	510.2	515.3
72.5°	373.8	400.5	423.6	430.8	435.2
75°	301.7	327.6	345.0	353.6	355.1
77.5°	231.7	255.5	271.3	281.5	281.5
80°	165.3	183.3	200.6	211.4	210.7
82.5°	105.4	119.1	137.1	145.1	150.1
85°	54.8	63.5	80.1	83.7	85.9
87.5°	17.3	22.4	28.9	23.8	23.1
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	17.81	19.46	18.18	19.78	20.09	18.35	20.00	18.72	20.32	20.63
	3H	19.59	21.08	19.96	21.41	21.77	20.21	21.71	20.59	22.03	22.39
	4H	20.21	21.62	20.61	21.97	22.34	20.89	22.29	21.28	22.64	23.02
	6H	20.61	21.92	21.03	22.28	22.67	21.37	22.68	21.78	23.04	23.43
	8H	20.72	21.96	21.14	22.35	22.75	21.53	22.78	21.95	23.16	23.56
	12H	20.76	21.96	21.19	22.34	22.77	21.63	22.82	22.06	23.20	23.63
4H	2H	18.55	19.96	18.95	20.31	20.68	18.97	20.38	19.37	20.73	21.10
	3H	20.54	21.73	20.95	22.12	22.52	21.05	22.23	21.46	22.63	23.03
	4H	21.29	22.36	21.72	22.78	23.21	21.85	22.92	22.28	23.34	23.77
	6H	21.81	22.75	22.27	23.19	23.64	22.47	23.40	22.92	23.84	24.30
	8H	21.95	22.82	22.41	23.27	23.73	22.67	23.55	23.13	23.99	24.45
	12H	22.02	22.81	22.50	23.29	23.76	22.81	23.60	23.29	24.07	24.54
8H	4H	21.65	22.52	22.11	22.97	23.43	22.14	23.02	22.60	23.46	23.92
	6H	22.28	23.01	22.77	23.50	23.97	22.88	23.60	23.37	24.09	24.56
	8H	22.48	23.13	22.98	23.63	24.12	23.15	23.80	23.66	24.31	24.79
	12H	22.60	23.18	23.11	23.67	24.23	23.36	23.93	23.86	24.42	24.98
12H	4H	21.69	22.48	22.17	22.95	23.42	22.17	22.95	22.65	23.43	23.90
	6H	22.35	23.00	22.85	23.51	23.99	22.92	23.57	23.43	24.08	24.56
	8H	22.60	23.17	23.10	23.66	24.22	23.25	23.82	23.75	24.31	24.87