

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: P1585796

Luminaire Tested: 14CZSP-SB-54VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585796
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-54VHE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

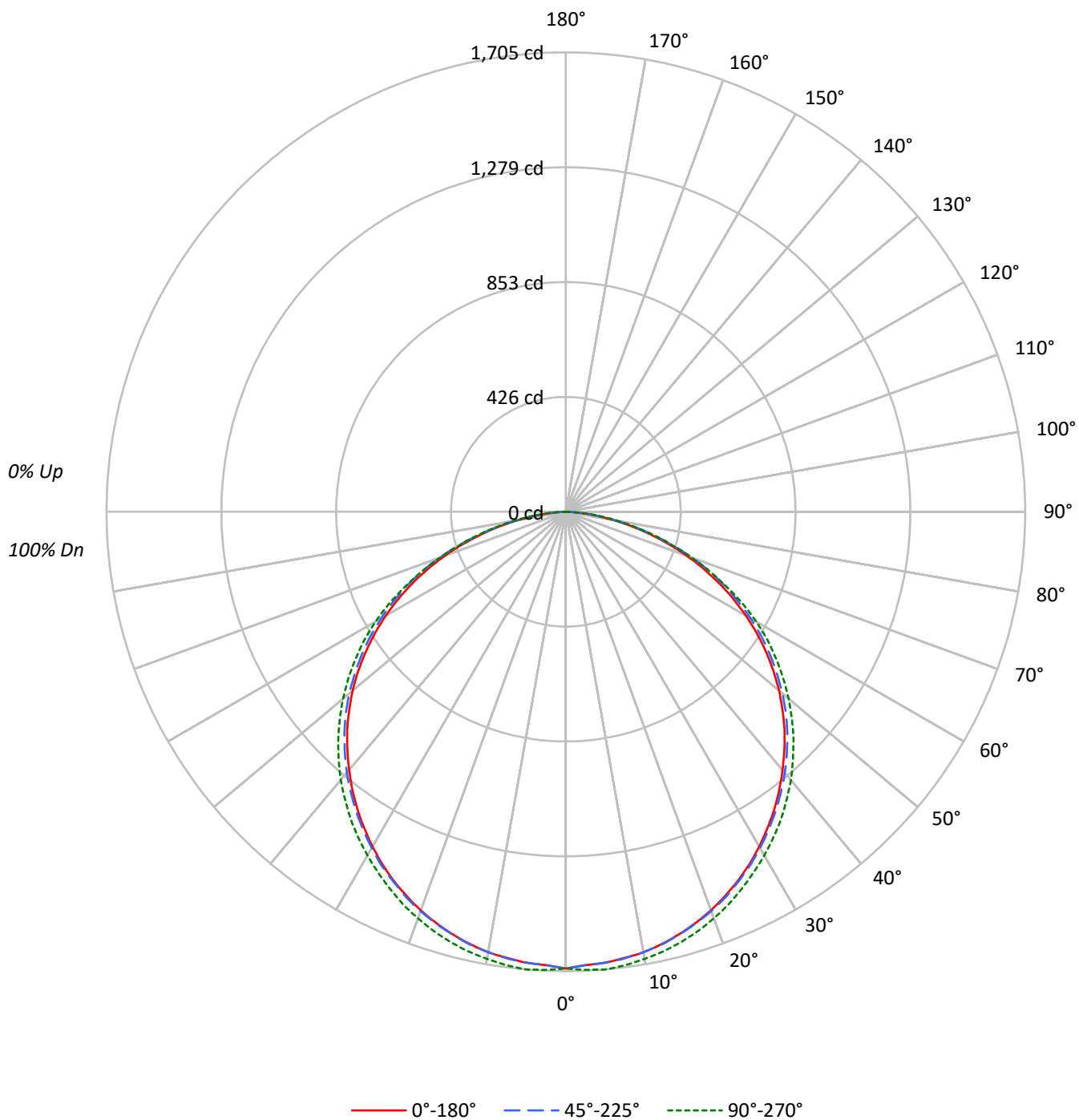
Lumens per Lamp: N/A
Luminaire Lumens: 5002.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5711	5711	5711
5°	5684	5681	5767
10°	5681	5679	5765
15°	5665	5670	5768
20°	5647	5658	5759
25°	5619	5633	5741
30°	5585	5609	5731
35°	5548	5583	5728
40°	5505	5562	5717
45°	5471	5541	5694
50°	5416	5501	5657
55°	5332	5431	5602
60°	5203	5337	5503
65°	5008	5197	5252
70°	4708	4927	4897
75°	4229	4407	4437
80°	3493	3671	3863
85°	2339	2726	2873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.2
10°-20°	461.8	9.2
20°-30°	703.2	14.1
30°-40°	855.8	17.1
40°-50°	902.2	18.0
50°-60°	831.0	16.6
60°-70°	641.8	12.8
70°-80°	359.1	7.2
80°-90°	86.6	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°	1325.6	26.5
0°-40°	2181.4	43.6
0°-60°	3914.5	78.3
0°-90°	5002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1680	1704	1680	1682	1705	160
15°	1624	1646	1625	1634	1654	458
25°	1511	1533	1515	1525	1544	697
35°	1349	1369	1357	1374	1392	844
45°	1148	1164	1163	1180	1195	885
55°	908	923	924	944	954	810
65°	628	646	652	658	659	620
75°	325	345	338	338	341	344
85°	60	67	70	79	74	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.0	1695.0	1695.0	1695.0	1695.0
2.5°	1684.3	1708.8	1684.3	1688.1	1701.9
5°	1680.4	1704.2	1679.7	1682.0	1705.0
7.5°	1670.5	1695.0	1672.0	1675.1	1697.3
10°	1660.5	1682.7	1659.8	1663.6	1685.0
12.5°	1643.7	1666.7	1645.2	1649.8	1671.3
15°	1623.8	1646.0	1625.3	1634.5	1653.6
17.5°	1600.8	1622.2	1602.3	1613.0	1631.4
20°	1574.7	1595.4	1577.8	1585.5	1606.1
22.5°	1544.1	1565.6	1548.7	1555.6	1577.8
25°	1511.2	1532.6	1515.0	1525.0	1544.1
27.5°	1475.2	1495.9	1480.5	1492.8	1509.6
30°	1435.3	1455.3	1441.5	1456.0	1472.9
32.5°	1392.5	1413.9	1400.1	1417.0	1433.8
35°	1348.8	1368.7	1357.2	1374.1	1392.5
37.5°	1301.3	1320.5	1312.0	1329.6	1346.5
40°	1251.5	1273.0	1264.5	1282.9	1299.8
42.5°	1200.2	1220.9	1214.0	1233.1	1247.7
45°	1148.1	1164.2	1162.7	1180.3	1194.8
47.5°	1090.7	1110.6	1107.5	1125.1	1138.2
50°	1033.2	1049.3	1049.3	1066.2	1079.2
52.5°	971.2	987.3	987.3	1007.2	1017.9
55°	907.6	922.9	924.5	943.6	953.6
57.5°	840.2	856.3	859.4	878.5	887.7
60°	772.1	787.4	792.0	811.1	816.5
62.5°	700.8	719.2	721.5	736.8	739.9
65°	628.1	646.4	651.8	657.9	658.7
67.5°	553.8	572.9	578.3	578.3	578.3
70°	477.9	495.6	500.1	497.1	497.1
72.5°	401.3	420.5	418.2	415.1	416.7
75°	324.8	344.7	338.5	337.8	340.8
77.5°	251.2	270.4	260.4	266.5	267.3
80°	180.0	194.5	189.2	198.4	199.1
82.5°	115.7	124.8	126.4	134.0	131.7
85°	60.5	66.6	70.5	78.9	74.3
87.5°	19.1	25.3	23.0	26.8	20.7
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	18.09	19.74	18.45	20.06	20.37	18.30	19.96	18.67	20.27	20.59
	3H	19.91	21.41	20.29	21.73	22.09	20.11	21.60	20.48	21.93	22.29
	4H	20.56	21.97	20.95	22.32	22.69	20.74	22.16	21.14	22.50	22.88
	6H	20.98	22.29	21.39	22.66	23.05	21.20	22.51	21.61	22.87	23.26
	8H	21.09	22.35	21.52	22.73	23.13	21.33	22.58	21.75	22.97	23.37
	12H	21.15	22.35	21.58	22.73	23.16	21.40	22.60	21.83	22.98	23.41
4H	2H	18.77	20.18	19.17	20.53	20.90	18.94	20.35	19.34	20.70	21.07
	3H	20.81	21.99	21.22	22.39	22.79	20.95	22.14	21.36	22.53	22.93
	4H	21.59	22.66	22.02	23.07	23.51	21.71	22.78	22.14	23.19	23.63
	6H	22.14	23.08	22.59	23.52	23.97	22.28	23.22	22.74	23.66	24.12
	8H	22.28	23.16	22.74	23.60	24.07	22.46	23.34	22.92	23.78	24.24
	12H	22.37	23.16	22.85	23.63	24.10	22.57	23.36	23.05	23.84	24.30
8H	4H	21.90	22.77	22.36	23.22	23.68	22.00	22.88	22.46	23.32	23.79
	6H	22.56	23.28	23.05	23.77	24.25	22.69	23.41	23.18	23.90	24.38
	8H	22.76	23.41	23.27	23.92	24.41	22.92	23.58	23.43	24.08	24.57
	12H	22.90	23.47	23.40	23.96	24.52	23.10	23.68	23.61	24.17	24.73
12H	4H	21.93	22.72	22.41	23.19	23.66	22.03	22.82	22.51	23.30	23.76
	6H	22.60	23.26	23.11	23.76	24.25	22.73	23.38	23.24	23.89	24.37
	8H	22.86	23.43	23.36	23.92	24.48	23.02	23.60	23.52	24.09	24.64