

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: P1585797

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585797
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-54VHE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

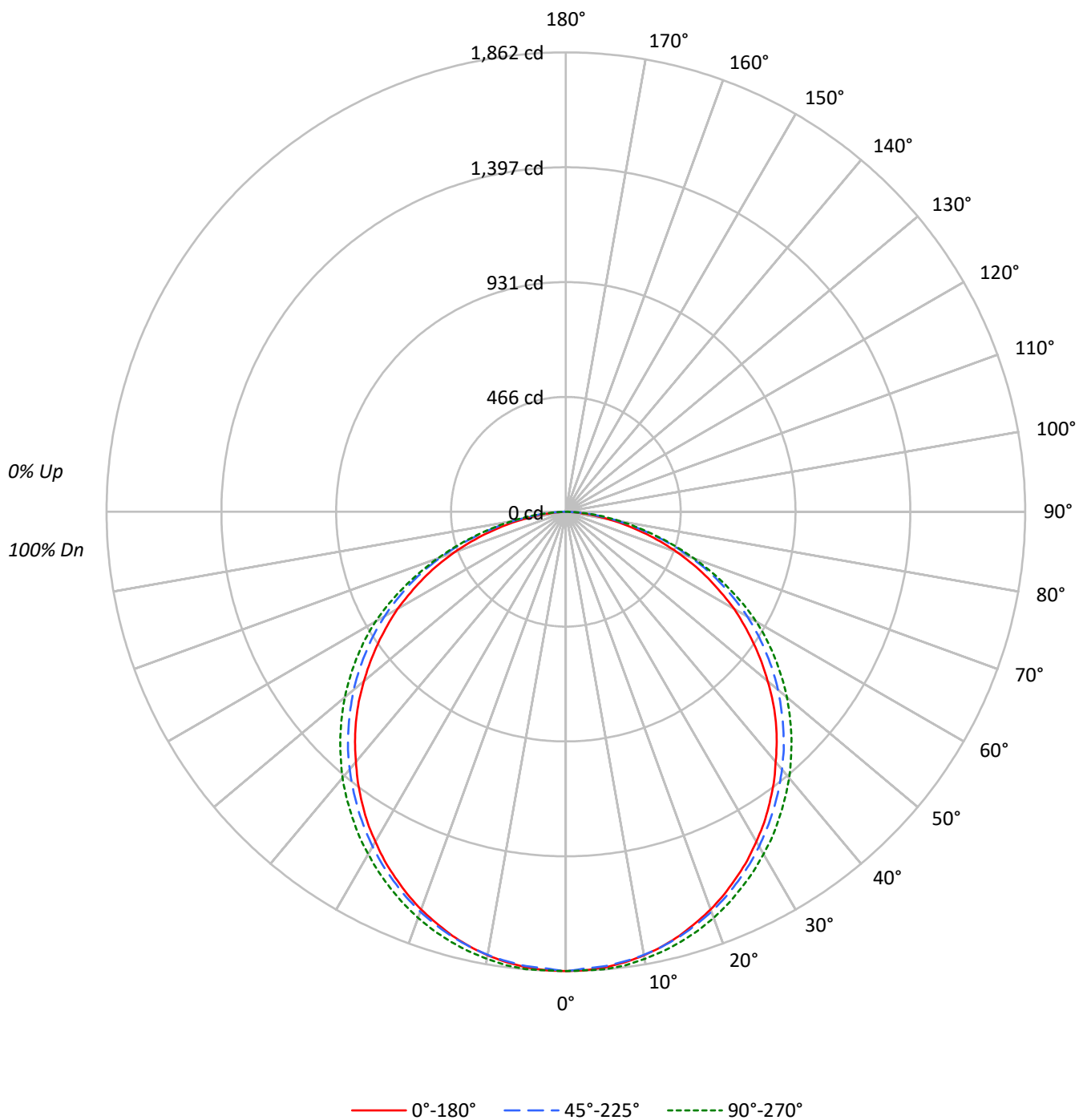
Lumens per Lamp: N/A
Luminaire Lumens: 5379.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6274	6274	6274
5°	6269	6253	6295
10°	6246	6241	6296
15°	6206	6220	6292
20°	6151	6187	6282
25°	6084	6142	6257
30°	6008	6096	6234
35°	5925	6046	6212
40°	5821	5995	6196
45°	5738	5941	6162
50°	5601	5885	6133
55°	5458	5808	6086
60°	5310	5723	6005
65°	5072	5572	5777
70°	4733	5321	5450
75°	4217	4822	4963
80°	3442	4180	4389
85°	2277	3325	3565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	3.3
10°-20°	505.1	9.4
20°-30°	764.8	14.2
30°-40°	923.1	17.2
40°-50°	964.0	17.9
50°-60°	881.9	16.4
60°-70°	681.8	12.7
70°-80°	386.0	7.2
80°-90°	95.9	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°	1446.3	26.9
0°-40°	2369.4	44.0
0°-60°	4215.3	78.4
0°-90°	5379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1853	1866	1849	1850	1861	176
15°	1779	1794	1783	1791	1804	502
25°	1636	1657	1652	1667	1683	754
35°	1440	1460	1470	1495	1510	901
45°	1204	1227	1247	1278	1293	927
55°	929	957	989	1020	1036	831
65°	636	662	699	720	724	628
75°	324	352	370	380	381	343
85°	59	68	86	90	92	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	1859.6	1872.7	1852.6	1856.5	1860.3
5°	1853.4	1866.5	1848.7	1850.3	1861.1
7.5°	1841.8	1856.5	1837.9	1841.0	1854.2
10°	1825.5	1840.2	1823.9	1827.0	1840.2
12.5°	1804.6	1819.3	1805.3	1810.0	1824.7
15°	1779.0	1794.5	1782.9	1791.4	1803.8
17.5°	1748.0	1767.4	1755.0	1768.1	1780.5
20°	1715.5	1734.8	1725.5	1737.2	1751.9
22.5°	1678.3	1697.6	1690.7	1703.1	1719.3
25°	1636.4	1657.3	1651.9	1667.4	1682.9
27.5°	1593.0	1613.2	1611.6	1628.7	1644.9
30°	1544.2	1565.9	1566.7	1586.8	1602.3
32.5°	1495.4	1514.8	1519.4	1541.9	1559.7
35°	1440.4	1460.5	1469.8	1494.6	1510.1
37.5°	1384.6	1407.1	1417.2	1444.3	1460.5
40°	1323.4	1349.0	1362.9	1391.6	1408.6
42.5°	1265.3	1288.5	1307.1	1335.8	1351.3
45°	1204.1	1227.3	1246.7	1278.5	1293.2
47.5°	1138.2	1163.8	1184.7	1215.7	1232.0
50°	1068.5	1096.4	1122.7	1152.9	1170.0
52.5°	999.5	1026.6	1056.9	1086.3	1103.3
55°	929.0	956.9	988.7	1019.7	1035.9
57.5°	857.7	885.6	920.5	948.4	965.4
60°	788.0	813.6	849.2	877.1	891.0
62.5°	709.0	738.4	774.8	802.7	810.5
65°	636.1	662.5	698.9	719.8	724.5
67.5°	558.6	585.0	621.4	633.0	640.0
70°	480.4	508.3	540.1	547.8	553.2
72.5°	401.4	430.0	454.8	462.6	467.2
75°	323.9	351.8	370.4	379.7	381.2
77.5°	248.7	274.3	291.3	302.2	302.2
80°	177.4	196.8	215.4	227.0	226.2
82.5°	113.1	127.8	147.2	155.7	161.2
85°	58.9	68.2	86.0	89.9	92.2
87.5°	18.6	24.0	31.0	25.6	24.8
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	18.06	19.71	18.42	20.02	20.34	18.60	20.25	18.97	20.57	20.88
	3H	19.83	21.33	20.21	21.65	22.01	20.46	21.96	20.84	22.28	22.64
	4H	20.46	21.86	20.85	22.21	22.59	21.13	22.54	21.53	22.89	23.26
	6H	20.86	22.17	21.27	22.53	22.92	21.62	22.92	22.03	23.29	23.68
	8H	20.96	22.21	21.39	22.60	23.00	21.78	23.02	22.20	23.41	23.81
	12H	21.01	22.21	21.44	22.59	23.02	21.87	23.07	22.30	23.45	23.88
4H	2H	18.80	20.21	19.20	20.55	20.93	19.22	20.63	19.62	20.98	21.35
	3H	20.79	21.97	21.20	22.37	22.77	21.30	22.48	21.71	22.88	23.28
	4H	21.54	22.61	21.97	23.02	23.46	22.10	23.17	22.53	23.58	24.02
	6H	22.06	22.99	22.51	23.43	23.89	22.72	23.65	23.17	24.09	24.54
	8H	22.20	23.07	22.65	23.51	23.98	22.92	23.79	23.38	24.24	24.70
	12H	22.27	23.06	22.75	23.53	24.00	23.06	23.84	23.54	24.32	24.79
8H	4H	21.90	22.77	22.36	23.21	23.68	22.39	23.27	22.85	23.71	24.17
	6H	22.53	23.26	23.02	23.74	24.22	23.12	23.85	23.62	24.34	24.81
	8H	22.72	23.37	23.23	23.88	24.37	23.40	24.05	23.90	24.55	25.04
	12H	22.85	23.42	23.35	23.91	24.47	23.60	24.18	24.11	24.67	25.23
12H	4H	21.94	22.72	22.42	23.20	23.67	22.41	23.20	22.89	23.68	24.14
	6H	22.59	23.25	23.10	23.75	24.24	23.16	23.82	23.67	24.32	24.81
	8H	22.84	23.42	23.35	23.91	24.47	23.49	24.07	24.00	24.56	25.12