

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: P1584400

Luminaire Tested: 14CZSP-54VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54VHE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

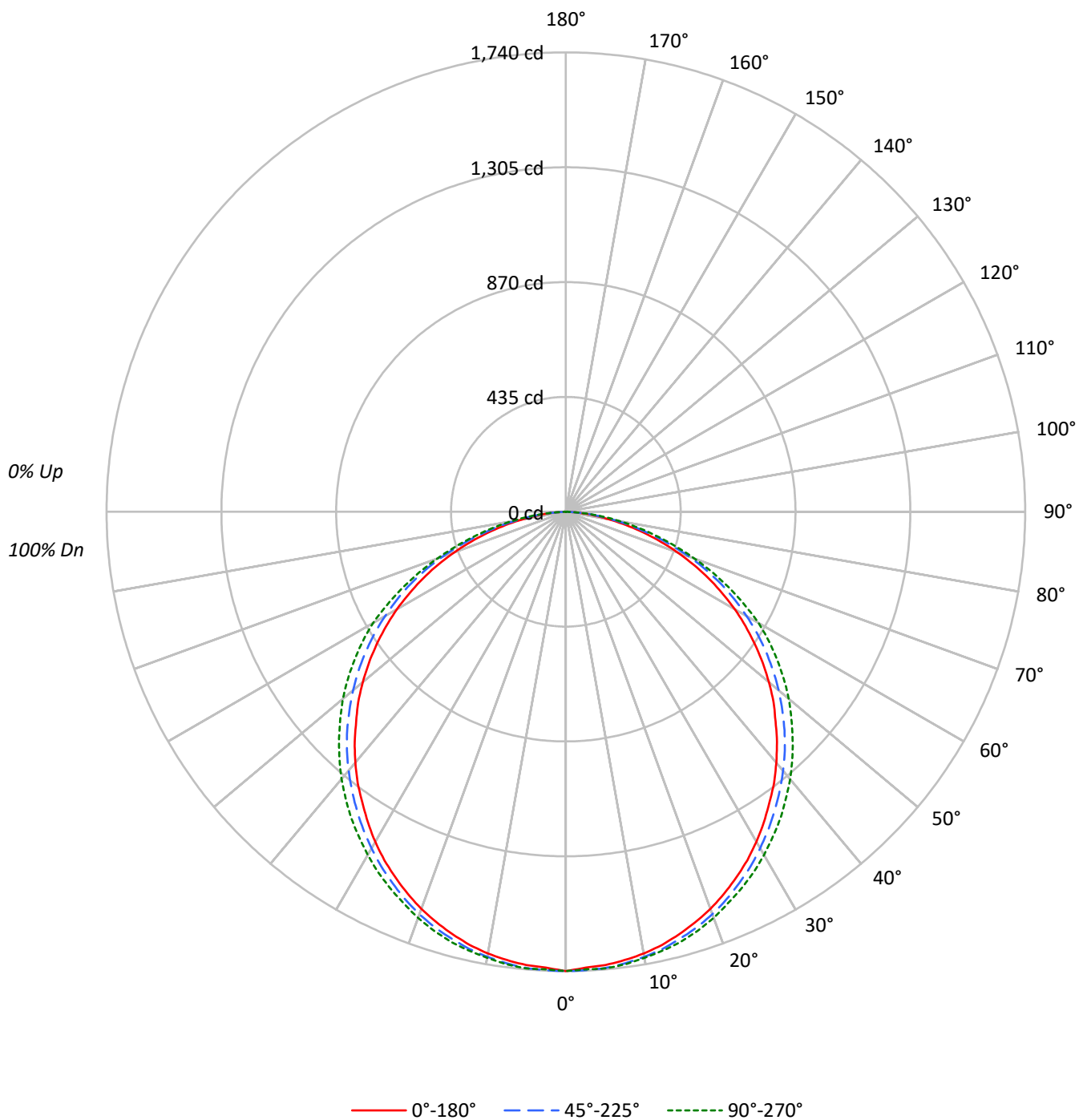
Lumens per Lamp: N/A
Luminaire Lumens: 5030.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	5863	5863	5863
5°	5830	5868	5873
10°	5814	5857	5869
15°	5780	5840	5881
20°	5740	5817	5870
25°	5681	5772	5852
30°	5617	5727	5839
35°	5528	5677	5829
40°	5455	5631	5813
45°	5352	5582	5790
50°	5263	5515	5779
55°	5137	5437	5741
60°	4980	5329	5683
65°	4758	5183	5449
70°	4434	4894	5113
75°	3962	4415	4665
80°	3246	3722	4081
85°	2177	2718	3035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.3
10°-20°	472.4	9.4
20°-30°	715.3	14.2
30°-40°	863.8	17.2
40°-50°	902.8	17.9
50°-60°	827.2	16.4
60°-70°	638.6	12.7
70°-80°	359.2	7.1
80°-90°	85.9	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°	1352.5	26.9
0°-40°	2216.3	44.1
0°-60°	3946.3	78.5
0°-90°	5030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1724	1736	1735	1736	1736	164
15°	1657	1670	1674	1681	1686	468
25°	1528	1542	1553	1561	1574	704
35°	1344	1361	1380	1399	1417	842
45°	1123	1145	1171	1195	1215	868
55°	874	897	926	954	977	781
65°	597	623	650	676	683	590
75°	304	332	339	353	358	323
85°	56	64	70	77	78	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739.9	1739.9	1739.9	1739.9	1739.9
2.5°	1728.0	1741.4	1738.4	1742.8	1734.7
5°	1723.6	1736.2	1734.7	1736.2	1736.2
7.5°	1712.5	1725.8	1725.1	1727.3	1728.8
10°	1699.2	1711.7	1711.7	1714.0	1715.4
12.5°	1680.7	1694.0	1695.5	1699.2	1702.1
15°	1657.0	1670.3	1674.0	1680.7	1685.8
17.5°	1630.3	1644.4	1650.3	1657.0	1663.6
20°	1600.7	1613.3	1622.2	1627.3	1637.0
22.5°	1565.9	1580.0	1589.6	1594.8	1605.1
25°	1528.1	1541.5	1552.6	1560.7	1574.0
27.5°	1488.2	1501.5	1514.8	1524.4	1540.0
30°	1443.7	1457.8	1471.9	1486.7	1500.7
32.5°	1395.6	1411.9	1427.4	1443.7	1459.3
35°	1343.8	1360.8	1380.1	1398.6	1417.1
37.5°	1295.7	1311.2	1331.2	1351.2	1369.7
40°	1240.1	1257.2	1280.1	1302.3	1321.6
42.5°	1183.9	1202.4	1227.5	1249.0	1269.7
45°	1123.1	1145.4	1171.3	1195.0	1215.0
47.5°	1066.9	1086.1	1112.0	1138.0	1158.7
50°	1003.9	1025.4	1052.1	1079.5	1102.4
52.5°	940.3	962.5	989.9	1017.3	1041.0
55°	874.4	897.3	925.5	954.3	977.3
57.5°	807.0	831.4	860.3	889.2	912.1
60°	738.9	763.3	790.7	822.6	843.3
62.5°	667.8	695.2	721.1	750.7	763.3
65°	596.7	622.7	650.0	676.0	683.4
67.5°	524.2	550.8	575.3	592.3	601.9
70°	450.1	479.0	496.8	513.1	519.0
72.5°	376.9	405.7	416.1	431.6	437.6
75°	304.3	332.4	339.1	353.2	358.3
77.5°	234.0	259.9	262.1	278.4	282.8
80°	167.3	188.1	191.8	207.3	210.3
82.5°	107.4	122.2	127.3	140.7	145.1
85°	56.3	64.4	70.3	77.0	78.5
87.5°	18.5	23.0	19.2	20.0	18.5
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	17.86	19.51	18.22	19.82	20.14	18.40	20.05	18.76	20.36	20.68
	3H	19.63	21.13	20.01	21.45	21.81	20.25	21.75	20.63	22.07	22.43
	4H	20.26	21.67	20.66	22.01	22.39	20.92	22.33	21.32	22.68	23.05
	6H	20.67	21.97	21.08	22.34	22.73	21.40	22.70	21.81	23.07	23.46
	8H	20.77	22.02	21.20	22.41	22.80	21.55	22.79	21.97	23.18	23.58
	12H	20.82	22.02	21.25	22.40	22.83	21.63	22.82	22.06	23.20	23.63
4H	2H	18.58	19.99	18.98	20.34	20.71	19.00	20.41	19.40	20.76	21.13
	3H	20.58	21.76	20.98	22.15	22.55	21.08	22.26	21.48	22.65	23.05
	4H	21.33	22.40	21.76	22.81	23.25	21.87	22.94	22.30	23.35	23.79
	6H	21.86	22.79	22.31	23.23	23.69	22.47	23.41	22.93	23.85	24.30
	8H	22.00	22.87	22.46	23.32	23.78	22.67	23.54	23.12	23.98	24.45
	12H	22.08	22.86	22.56	23.34	23.81	22.79	23.57	23.27	24.05	24.52
8H	4H	21.67	22.54	22.13	22.99	23.45	22.15	23.02	22.61	23.46	23.93
	6H	22.31	23.04	22.80	23.52	24.00	22.86	23.59	23.35	24.07	24.55
	8H	22.51	23.16	23.02	23.67	24.15	23.12	23.77	23.63	24.27	24.76
	12H	22.64	23.22	23.15	23.71	24.27	23.30	23.87	23.81	24.36	24.92
12H	4H	21.71	22.49	22.19	22.97	23.44	22.17	22.96	22.65	23.43	23.90
	6H	22.37	23.02	22.87	23.52	24.01	22.90	23.55	23.41	24.05	24.54
	8H	22.62	23.19	23.12	23.68	24.24	23.20	23.78	23.71	24.27	24.83