

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: P1584410

Luminaire Tested: 14CZSP-54VHE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584410
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-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

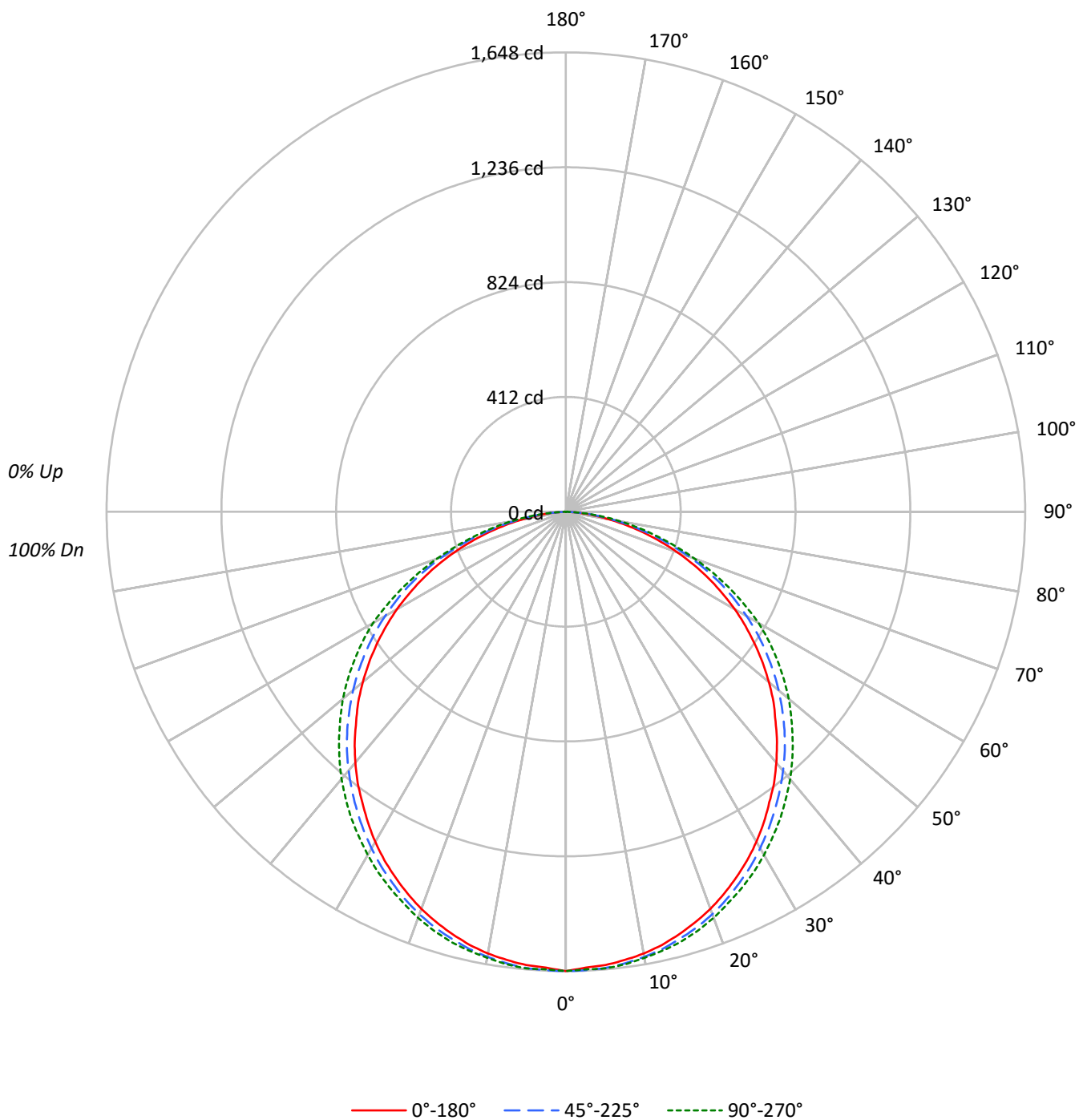
Lumens per Lamp: N/A
Luminaire Lumens: 4764.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	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	59	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°	5553	5553	5553
5°	5522	5557	5562
10°	5506	5547	5559
15°	5474	5531	5570
20°	5436	5509	5559
25°	5381	5467	5543
30°	5320	5424	5530
35°	5235	5377	5521
40°	5166	5333	5506
45°	5069	5286	5483
50°	4985	5223	5473
55°	4865	5149	5438
60°	4716	5047	5383
65°	4506	4909	5160
70°	4200	4635	4843
75°	3752	4182	4419
80°	3076	3524	3863
85°	2061	2575	2873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5483 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.3
10°-20°	447.4	9.4
20°-30°	677.5	14.2
30°-40°	818.1	17.2
40°-50°	855.0	17.9
50°-60°	783.5	16.4
60°-70°	604.8	12.7
70°-80°	340.2	7.1
80°-90°	81.4	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°	1281.0	26.9
0°-40°	2099.1	44.1
0°-60°	3737.6	78.5
0°-90°	4764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1632	1644	1643	1644	1644	155
15°	1569	1582	1586	1592	1597	443
25°	1447	1460	1470	1478	1491	667
35°	1273	1289	1307	1325	1342	797
45°	1064	1085	1109	1132	1151	822
55°	828	850	876	904	926	740
65°	565	590	616	640	647	558
75°	288	315	321	334	339	306
85°	53	61	67	73	74	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1647.9	1647.9	1647.9	1647.9	1647.9
2.5°	1636.7	1649.3	1646.5	1650.7	1643.0
5°	1632.4	1644.4	1643.0	1644.4	1644.4
7.5°	1621.9	1634.5	1633.8	1636.0	1637.4
10°	1609.3	1621.2	1621.2	1623.3	1624.7
12.5°	1591.8	1604.4	1605.8	1609.3	1612.1
15°	1569.3	1582.0	1585.5	1591.8	1596.7
17.5°	1544.1	1557.4	1563.0	1569.3	1575.6
20°	1516.0	1528.0	1536.4	1541.3	1550.4
22.5°	1483.1	1496.4	1505.5	1510.4	1520.2
25°	1447.3	1459.9	1470.5	1478.2	1490.8
27.5°	1409.5	1422.1	1434.7	1443.8	1458.5
30°	1367.4	1380.7	1394.0	1408.1	1421.4
32.5°	1321.8	1337.2	1352.0	1367.4	1382.1
35°	1272.7	1288.8	1307.1	1324.6	1342.1
37.5°	1227.1	1241.9	1260.8	1279.7	1297.3
40°	1174.5	1190.7	1212.4	1233.4	1251.7
42.5°	1121.3	1138.8	1162.6	1183.0	1202.6
45°	1063.8	1084.8	1109.3	1131.8	1150.7
47.5°	1010.5	1028.7	1053.2	1077.8	1097.4
50°	950.9	971.2	996.4	1022.4	1044.1
52.5°	890.6	911.6	937.5	963.5	985.9
55°	828.1	849.9	876.5	903.9	925.6
57.5°	764.3	787.5	814.8	842.2	863.9
60°	699.8	723.0	748.9	779.1	798.7
62.5°	632.5	658.4	683.0	711.0	723.0
65°	565.2	589.7	615.7	640.2	647.2
67.5°	496.5	521.7	544.8	561.0	570.1
70°	426.3	453.7	470.5	485.9	491.6
72.5°	356.9	384.3	394.1	408.8	414.4
75°	288.2	314.8	321.2	334.5	339.4
77.5°	221.6	246.1	248.2	263.7	267.9
80°	158.5	178.1	181.6	196.3	199.1
82.5°	101.7	115.7	120.6	133.2	137.4
85°	53.3	61.0	66.6	72.9	74.3
87.5°	17.5	21.7	18.2	18.9	17.5
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	17.67	19.32	18.03	19.63	19.95	18.21	19.86	18.57	20.17	20.49
	3H	19.44	20.94	19.82	21.26	21.62	20.07	21.56	20.44	21.88	22.24
	4H	20.07	21.48	20.47	21.82	22.20	20.73	22.14	21.13	22.49	22.86
	6H	20.48	21.78	20.89	22.15	22.54	21.21	22.52	21.62	22.88	23.27
	8H	20.58	21.83	21.01	22.22	22.62	21.36	22.60	21.78	22.99	23.39
	12H	20.63	21.83	21.06	22.21	22.64	21.44	22.63	21.87	23.02	23.44
4H	2H	18.39	19.80	18.79	20.15	20.52	18.82	20.22	19.21	20.57	20.94
	3H	20.39	21.57	20.80	21.96	22.36	20.89	22.07	21.30	22.46	22.86
	4H	21.14	22.21	21.58	22.63	23.06	21.68	22.75	22.11	23.16	23.60
	6H	21.67	22.61	22.13	23.05	23.50	22.29	23.22	22.74	23.66	24.11
	8H	21.81	22.69	22.27	23.13	23.59	22.48	23.35	22.94	23.79	24.26
	12H	21.89	22.68	22.37	23.15	23.62	22.60	23.38	23.08	23.86	24.33
8H	4H	21.48	22.36	21.94	22.80	23.26	21.96	22.83	22.42	23.27	23.74
	6H	22.12	22.85	22.61	23.34	23.81	22.67	23.40	23.16	23.88	24.36
	8H	22.32	22.97	22.83	23.48	23.96	22.93	23.58	23.44	24.09	24.57
	12H	22.45	23.03	22.96	23.52	24.08	23.11	23.69	23.62	24.18	24.74
12H	4H	21.52	22.30	22.00	22.78	23.25	21.98	22.77	22.46	23.24	23.71
	6H	22.18	22.83	22.69	23.33	23.82	22.71	23.36	23.22	23.87	24.35
	8H	22.43	23.00	22.93	23.49	24.05	23.02	23.59	23.52	24.08	24.64