

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: P1584430

Luminaire Tested: 14CZSP-60VHE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584430
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-60VHE-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

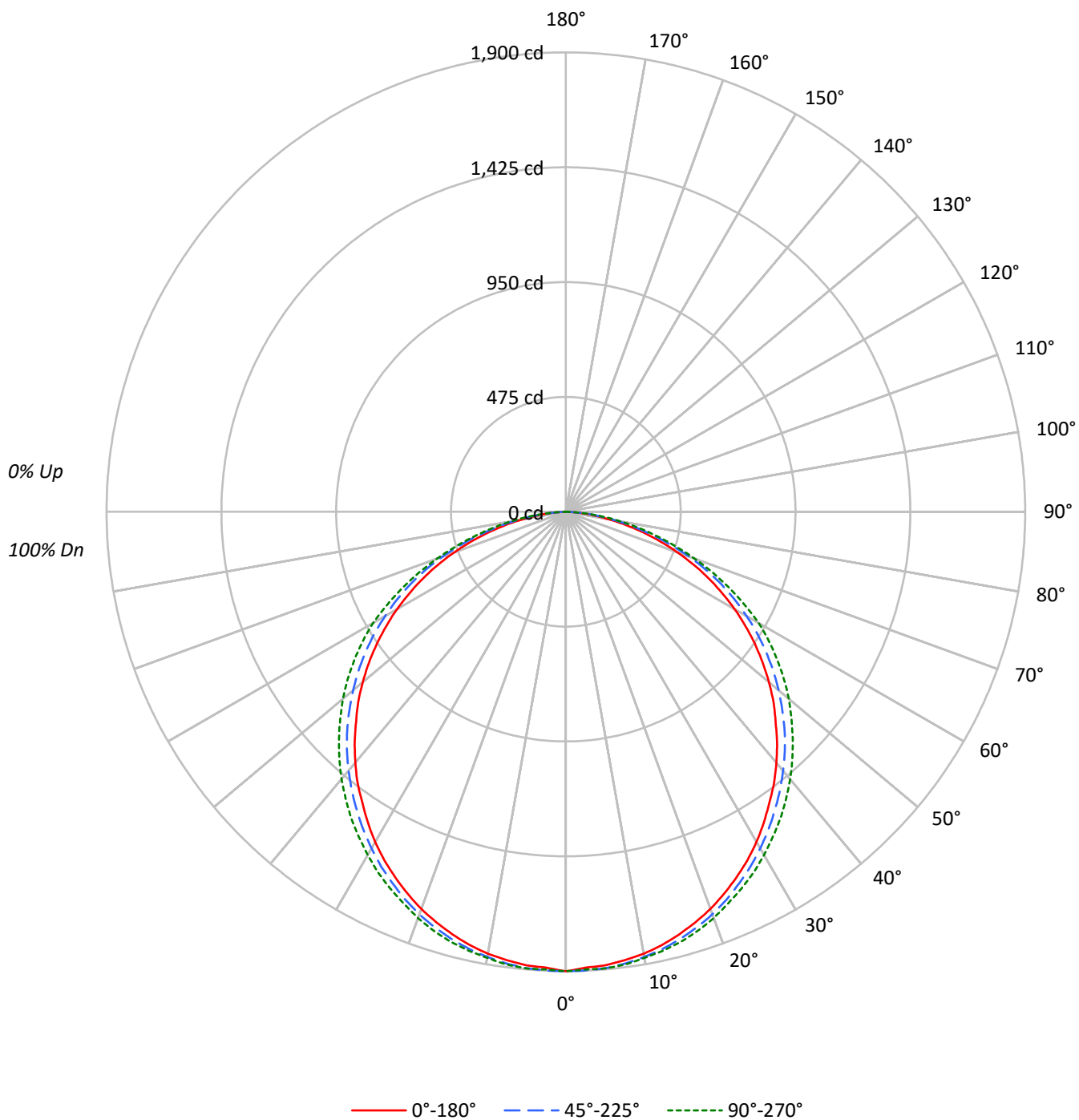
Lumens per Lamp: N/A
Luminaire Lumens: 5494.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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°	6404	6404	6404
5°	6368	6409	6414
10°	6350	6397	6411
15°	6313	6378	6423
20°	6269	6353	6411
25°	6206	6305	6392
30°	6135	6255	6378
35°	6037	6201	6367
40°	5958	6150	6349
45°	5846	6096	6324
50°	5749	6024	6312
55°	5610	5938	6271
60°	5439	5821	6207
65°	5197	5661	5951
70°	4844	5346	5585
75°	4328	4822	5096
80°	3547	4063	4457
85°	2378	2969	3313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	3.3
10°-20°	516.0	9.4
20°-30°	781.3	14.2
30°-40°	943.5	17.2
40°-50°	986.0	17.9
50°-60°	903.5	16.4
60°-70°	697.5	12.7
70°-80°	392.3	7.1
80°-90°	93.9	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°	1477.3	26.9
0°-40°	2420.8	44.1
0°-60°	4310.3	78.5
0°-90°	5494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1883	1896	1895	1896	1896	179
15°	1810	1824	1828	1836	1841	511
25°	1669	1684	1696	1705	1719	769
35°	1468	1486	1507	1528	1548	920
45°	1227	1251	1279	1305	1327	948
55°	955	980	1011	1042	1067	853
65°	652	680	710	738	746	644
75°	332	363	370	386	391	352
85°	62	70	77	84	86	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.4	1900.4	1900.4	1900.4	1900.4
2.5°	1887.4	1902.0	1898.8	1903.6	1894.7
5°	1882.6	1896.3	1894.7	1896.3	1896.3
7.5°	1870.5	1885.0	1884.2	1886.6	1888.2
10°	1855.9	1869.6	1869.6	1872.1	1873.7
12.5°	1835.7	1850.2	1851.9	1855.9	1859.1
15°	1809.8	1824.4	1828.4	1835.7	1841.3
17.5°	1780.7	1796.1	1802.5	1809.8	1817.1
20°	1748.3	1762.1	1771.8	1777.5	1788.0
22.5°	1710.3	1725.7	1736.2	1741.9	1753.2
25°	1669.1	1683.7	1695.8	1704.7	1719.2
27.5°	1625.4	1640.0	1654.5	1665.1	1682.0
30°	1576.9	1592.3	1607.6	1623.8	1639.2
32.5°	1524.3	1542.1	1559.1	1576.9	1593.9
35°	1467.7	1486.3	1507.4	1527.6	1547.8
37.5°	1415.2	1432.2	1454.0	1475.8	1496.0
40°	1354.5	1373.1	1398.2	1422.5	1443.5
42.5°	1293.1	1313.3	1340.8	1364.2	1386.9
45°	1226.8	1251.0	1279.3	1305.2	1327.0
47.5°	1165.3	1186.3	1214.6	1242.9	1265.6
50°	1096.6	1120.0	1149.1	1179.0	1204.1
52.5°	1027.0	1051.3	1081.2	1111.1	1137.0
55°	955.0	980.1	1010.8	1042.4	1067.4
57.5°	881.5	908.1	939.7	971.2	996.3
60°	807.1	833.7	863.7	898.4	921.1
62.5°	729.4	759.3	787.6	820.0	833.7
65°	651.8	680.1	710.0	738.3	746.4
67.5°	572.5	601.7	628.3	646.9	657.5
70°	491.7	523.2	542.6	560.4	566.9
72.5°	411.6	443.2	454.5	471.5	477.9
75°	332.4	363.1	370.4	385.7	391.4
77.5°	255.5	283.8	286.3	304.1	308.9
80°	182.8	205.4	209.4	226.4	229.7
82.5°	117.3	133.4	139.1	153.6	158.5
85°	61.5	70.4	76.8	84.1	85.7
87.5°	20.2	25.1	21.0	21.8	20.2
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	18.16	19.81	18.53	20.13	20.44	18.70	20.35	19.07	20.67	20.98
	3H	19.94	21.43	20.32	21.76	22.12	20.56	22.05	20.94	22.38	22.74
	4H	20.57	21.97	20.96	22.32	22.70	21.23	22.64	21.63	22.98	23.36
	6H	20.97	22.28	21.38	22.64	23.03	21.71	23.01	22.12	23.37	23.77
	8H	21.08	22.32	21.50	22.71	23.11	21.85	23.10	22.28	23.49	23.89
	12H	21.13	22.32	21.56	22.70	23.13	21.93	23.13	22.36	23.51	23.94
4H	2H	18.89	20.29	19.29	20.64	21.02	19.31	20.72	19.71	21.06	21.44
	3H	20.88	22.06	21.29	22.46	22.86	21.38	22.56	21.79	22.96	23.36
	4H	21.64	22.71	22.07	23.12	23.56	22.18	23.25	22.61	23.66	24.09
	6H	22.17	23.10	22.62	23.54	24.00	22.78	23.71	23.23	24.15	24.61
	8H	22.31	23.18	22.77	23.62	24.09	22.97	23.85	23.43	24.29	24.75
	12H	22.39	23.17	22.87	23.65	24.11	23.09	23.88	23.57	24.35	24.82
8H	4H	21.98	22.85	22.44	23.29	23.76	22.45	23.33	22.91	23.77	24.23
	6H	22.62	23.34	23.11	23.83	24.31	23.17	23.89	23.66	24.38	24.85
	8H	22.82	23.47	23.33	23.97	24.46	23.42	24.07	23.93	24.58	25.07
	12H	22.95	23.52	23.45	24.01	24.57	23.61	24.18	24.11	24.67	25.23
12H	4H	22.01	22.80	22.49	23.27	23.74	22.48	23.26	22.96	23.74	24.21
	6H	22.67	23.32	23.18	23.83	24.32	23.20	23.86	23.71	24.36	24.85
	8H	22.92	23.50	23.43	23.99	24.55	23.51	24.09	24.02	24.58	25.14