

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: P1584729

Luminaire Tested: 14CZSP-A-60VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-60VHE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

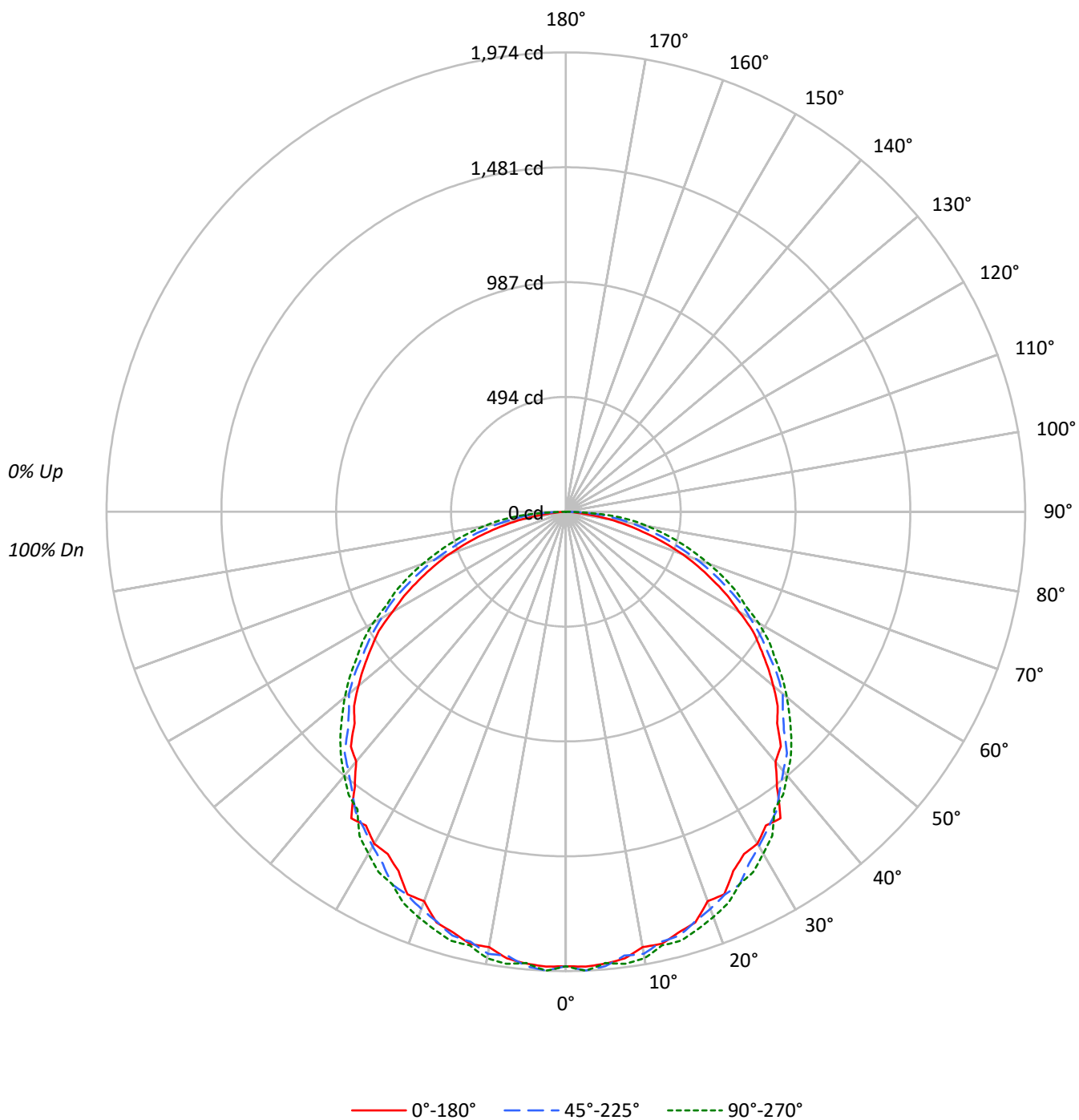
Lumens per Lamp: N/A
Luminaire Lumens: 5854.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6581	6581	6581
5°	6592	6630	6586
10°	6500	6600	6665
15°	6529	6578	6658
20°	6386	6513	6646
25°	6330	6569	6565
30°	6409	6460	6600
35°	6614	6478	6424
40°	6165	6395	6510
45°	6118	6315	6530
50°	6102	6377	6498
55°	5994	6236	6449
60°	5791	6164	6449
65°	5568	6057	6434
70°	5264	5889	6443
75°	4650	5751	6563
80°	3827	5604	6951
85°	2138	5911	7740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.2
10°-20°	531.3	9.1
20°-30°	807.5	13.8
30°-40°	981.9	16.8
40°-50°	1030.7	17.6
50°-60°	953.3	16.3
60°-70°	751.0	12.8
70°-80°	461.6	7.9
80°-90°	151.6	2.6
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°	1523.9	26.0
0°-40°	2505.8	42.8
0°-60°	4489.8	76.7
0°-90°	5854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1949	1915	1960	1943	1947	185
15°	1872	1866	1886	1911	1909	527
25°	1702	1734	1767	1762	1766	791
35°	1608	1550	1575	1599	1562	974
45°	1284	1311	1325	1363	1370	998
55°	1020	1052	1062	1089	1098	912
65°	698	726	760	793	807	692
75°	357	396	442	487	504	380
85°	55	97	153	187	200	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1953.0	1953.0	1953.0	1953.0	1953.0
2.5°	1956.0	1959.0	1973.1	1941.9	1974.1
5°	1949.0	1914.8	1960.0	1942.9	1947.0
7.5°	1935.9	1939.9	1923.8	1933.9	1959.0
10°	1899.7	1924.8	1928.8	1932.9	1948.0
12.5°	1901.7	1885.6	1892.6	1921.8	1908.7
15°	1871.5	1866.5	1885.6	1910.7	1908.7
17.5°	1850.4	1839.3	1846.3	1858.4	1881.6
20°	1780.9	1810.1	1816.2	1853.4	1853.4
22.5°	1778.9	1777.9	1781.9	1801.1	1821.2
25°	1702.5	1733.6	1766.9	1761.8	1765.8
27.5°	1658.2	1693.4	1704.5	1738.7	1744.7
30°	1647.1	1653.2	1660.2	1697.4	1696.4
32.5°	1598.8	1608.9	1613.9	1635.0	1651.1
35°	1607.9	1550.5	1574.7	1598.8	1561.6
37.5°	1490.2	1499.2	1509.3	1527.4	1533.4
40°	1401.6	1424.7	1453.9	1475.1	1480.1
42.5°	1367.4	1401.6	1406.6	1425.8	1430.8
45°	1283.9	1311.1	1325.1	1363.4	1370.4
47.5°	1234.6	1238.6	1263.8	1300.0	1305.0
50°	1164.1	1191.3	1216.5	1232.6	1239.6
52.5°	1092.7	1122.9	1143.0	1158.1	1172.2
55°	1020.3	1052.5	1061.5	1088.7	1097.7
57.5°	952.9	962.9	992.1	1018.3	1034.4
60°	859.3	893.5	914.6	962.9	956.9
62.5°	783.8	807.0	846.2	870.3	867.3
65°	698.3	725.5	759.7	792.9	807.0
67.5°	616.8	653.0	678.2	721.4	731.5
70°	534.3	551.4	597.7	639.9	654.0
72.5°	445.7	472.9	513.2	559.4	576.5
75°	357.2	396.4	441.7	487.0	504.1
77.5°	273.7	307.9	359.2	411.5	428.6
80°	197.2	228.4	288.8	337.1	358.2
82.5°	115.7	158.0	217.3	270.7	286.8
85°	55.3	96.6	152.9	187.1	200.2
87.5°	15.1	43.3	67.4	87.5	90.6
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	18.35	20.02	18.72	20.34	20.65	18.78	20.45	19.15	20.77	21.08
	3H	20.16	21.67	20.54	22.00	22.36	20.87	22.38	21.24	22.71	23.07
	4H	20.80	22.23	21.19	22.57	22.95	21.75	23.18	22.15	23.53	23.90
	6H	21.21	22.54	21.62	22.90	23.29	22.53	23.86	22.94	24.22	24.62
	8H	21.31	22.58	21.73	22.97	23.37	22.87	24.14	23.30	24.53	24.93
	12H	21.35	22.57	21.78	22.95	23.38	23.16	24.38	23.59	24.76	25.19
4H	2H	19.08	20.51	19.48	20.86	21.23	19.42	20.85	19.82	21.19	21.57
	3H	21.11	22.32	21.52	22.71	23.11	21.73	22.94	22.14	23.33	23.73
	4H	21.89	22.98	22.32	23.39	23.83	22.77	23.87	23.20	24.28	24.71
	6H	22.43	23.38	22.88	23.82	24.28	23.72	24.68	24.17	25.12	25.58
	8H	22.56	23.46	23.02	23.91	24.37	24.14	25.04	24.60	25.48	25.95
	12H	22.64	23.45	23.12	23.92	24.39	24.51	25.32	24.99	25.79	26.26
8H	4H	22.32	23.22	22.78	23.66	24.12	23.09	23.99	23.55	24.43	24.90
	6H	23.00	23.75	23.49	24.24	24.71	24.21	24.96	24.70	25.45	25.92
	8H	23.21	23.89	23.72	24.39	24.88	24.75	25.42	25.25	25.93	26.41
	12H	23.35	23.95	23.85	24.44	24.99	25.25	25.85	25.75	26.34	26.90
12H	4H	22.40	23.21	22.88	23.69	24.15	23.12	23.93	23.60	24.41	24.88
	6H	23.13	23.80	23.63	24.31	24.79	24.27	24.95	24.78	25.45	25.93
	8H	23.42	24.01	23.92	24.50	25.06	24.88	25.48	25.39	25.97	26.53