

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: P1584714

Luminaire Tested: 14CZSP-A-60VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584714
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-A-60VHE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

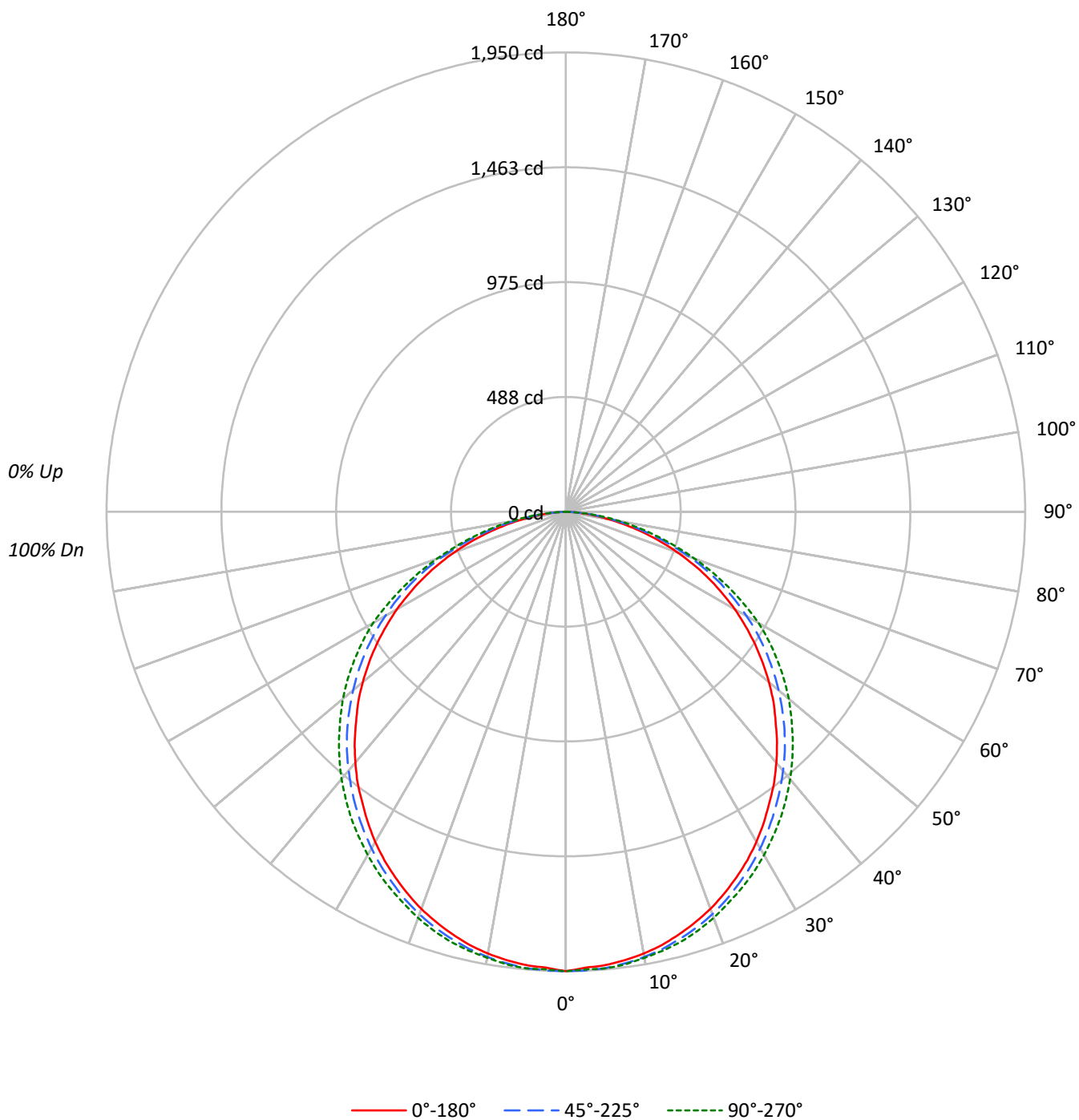
Lumens per Lamp: N/A
Luminaire Lumens: 5638.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6571	6571	6571
5°	6535	6577	6582
10°	6516	6565	6579
15°	6479	6545	6592
20°	6434	6520	6579
25°	6368	6470	6560
30°	6296	6419	6545
35°	6196	6363	6534
40°	6114	6311	6516
45°	5999	6256	6489
50°	5899	6182	6478
55°	5758	6094	6435
60°	5581	5973	6370
65°	5333	5809	6107
70°	4971	5486	5731
75°	4441	4949	5230
80°	3640	4170	4574
85°	2440	3047	3402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.3
10°-20°	529.5	9.4
20°-30°	801.8	14.2
30°-40°	968.2	17.2
40°-50°	1011.9	17.9
50°-60°	927.2	16.4
60°-70°	715.7	12.7
70°-80°	402.6	7.1
80°-90°	96.3	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°	1516.0	26.9
0°-40°	2484.2	44.1
0°-60°	4423.3	78.5
0°-90°	5638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1932	1946	1944	1946	1946	184
15°	1857	1872	1876	1884	1890	524
25°	1713	1728	1740	1749	1764	789
35°	1506	1525	1547	1568	1588	944
45°	1259	1284	1313	1339	1362	973
55°	980	1006	1037	1070	1095	876
65°	669	698	729	758	766	661
75°	341	373	380	396	402	362
85°	63	72	79	86	88	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.2	1950.2	1950.2	1950.2	1950.2
2.5°	1936.9	1951.8	1948.5	1953.5	1944.4
5°	1931.9	1946.0	1944.4	1946.0	1946.0
7.5°	1919.5	1934.4	1933.6	1936.1	1937.7
10°	1904.5	1918.7	1918.7	1921.1	1922.8
12.5°	1883.8	1898.7	1900.4	1904.5	1907.9
15°	1857.2	1872.2	1876.3	1883.8	1889.6
17.5°	1827.4	1843.1	1849.8	1857.2	1864.7
20°	1794.2	1808.3	1818.2	1824.0	1834.8
22.5°	1755.2	1770.9	1781.7	1787.5	1799.2
25°	1712.8	1727.8	1740.2	1749.4	1764.3
27.5°	1668.0	1683.0	1697.9	1708.7	1726.1
30°	1618.2	1634.0	1649.8	1666.4	1682.1
32.5°	1564.3	1582.6	1600.0	1618.2	1635.7
35°	1506.2	1525.3	1546.9	1567.6	1588.4
37.5°	1452.3	1469.7	1492.1	1514.5	1535.3
40°	1390.0	1409.1	1434.8	1459.7	1481.3
42.5°	1327.0	1347.7	1375.9	1400.0	1423.2
45°	1258.9	1283.8	1312.9	1339.4	1361.8
47.5°	1195.8	1217.4	1246.5	1275.5	1298.7
50°	1125.3	1149.4	1179.2	1209.9	1235.7
52.5°	1053.9	1078.8	1109.5	1140.2	1166.8
55°	980.1	1005.8	1037.3	1069.7	1095.4
57.5°	904.6	931.9	964.3	996.7	1022.4
60°	828.2	855.6	886.3	922.0	945.2
62.5°	748.5	779.2	808.3	841.5	855.6
65°	668.9	697.9	728.6	757.7	766.0
67.5°	587.5	617.4	644.8	663.9	674.7
70°	504.6	536.9	556.8	575.1	581.7
72.5°	422.4	454.8	466.4	483.8	490.5
75°	341.1	372.6	380.1	395.8	401.7
77.5°	262.2	291.3	293.8	312.0	317.0
80°	187.6	210.8	214.9	232.4	235.7
82.5°	120.3	136.9	142.7	157.7	162.7
85°	63.1	72.2	78.8	86.3	88.0
87.5°	20.7	25.7	21.6	22.4	20.7
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	18.25	19.90	18.62	20.22	20.53	18.79	20.44	19.16	20.76	21.07
	3H	20.03	21.52	20.41	21.85	22.21	20.65	22.14	21.03	22.47	22.83
	4H	20.66	22.06	21.05	22.41	22.79	21.32	22.73	21.72	23.07	23.45
	6H	21.06	22.37	21.47	22.73	23.12	21.80	23.10	22.21	23.46	23.86
	8H	21.17	22.41	21.59	22.80	23.20	21.94	23.19	22.37	23.58	23.98
	12H	21.22	22.41	21.65	22.79	23.22	22.02	23.22	22.45	23.60	24.03
4H	2H	18.98	20.38	19.38	20.73	21.11	19.40	20.81	19.80	21.15	21.53
	3H	20.97	22.15	21.38	22.55	22.95	21.47	22.65	21.88	23.05	23.45
	4H	21.73	22.80	22.16	23.21	23.65	22.27	23.34	22.70	23.75	24.18
	6H	22.26	23.19	22.71	23.63	24.09	22.87	23.80	23.32	24.24	24.70
	8H	22.40	23.27	22.86	23.71	24.18	23.06	23.94	23.52	24.38	24.84
	12H	22.48	23.26	22.96	23.74	24.20	23.18	23.97	23.66	24.44	24.91
8H	4H	22.07	22.94	22.53	23.38	23.85	22.54	23.42	23.00	23.86	24.32
	6H	22.71	23.43	23.20	23.92	24.40	23.26	23.98	23.75	24.47	24.94
	8H	22.91	23.56	23.42	24.06	24.55	23.51	24.16	24.02	24.67	25.16
	12H	23.04	23.61	23.54	24.10	24.66	23.70	24.27	24.20	24.76	25.32
12H	4H	22.10	22.89	22.58	23.36	23.83	22.57	23.35	23.05	23.83	24.30
	6H	22.76	23.41	23.27	23.92	24.41	23.29	23.95	23.80	24.45	24.94
	8H	23.01	23.59	23.52	24.08	24.64	23.60	24.18	24.11	24.67	25.23