

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: P1584712

Luminaire Tested: 14CZSP-A-60VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584712
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

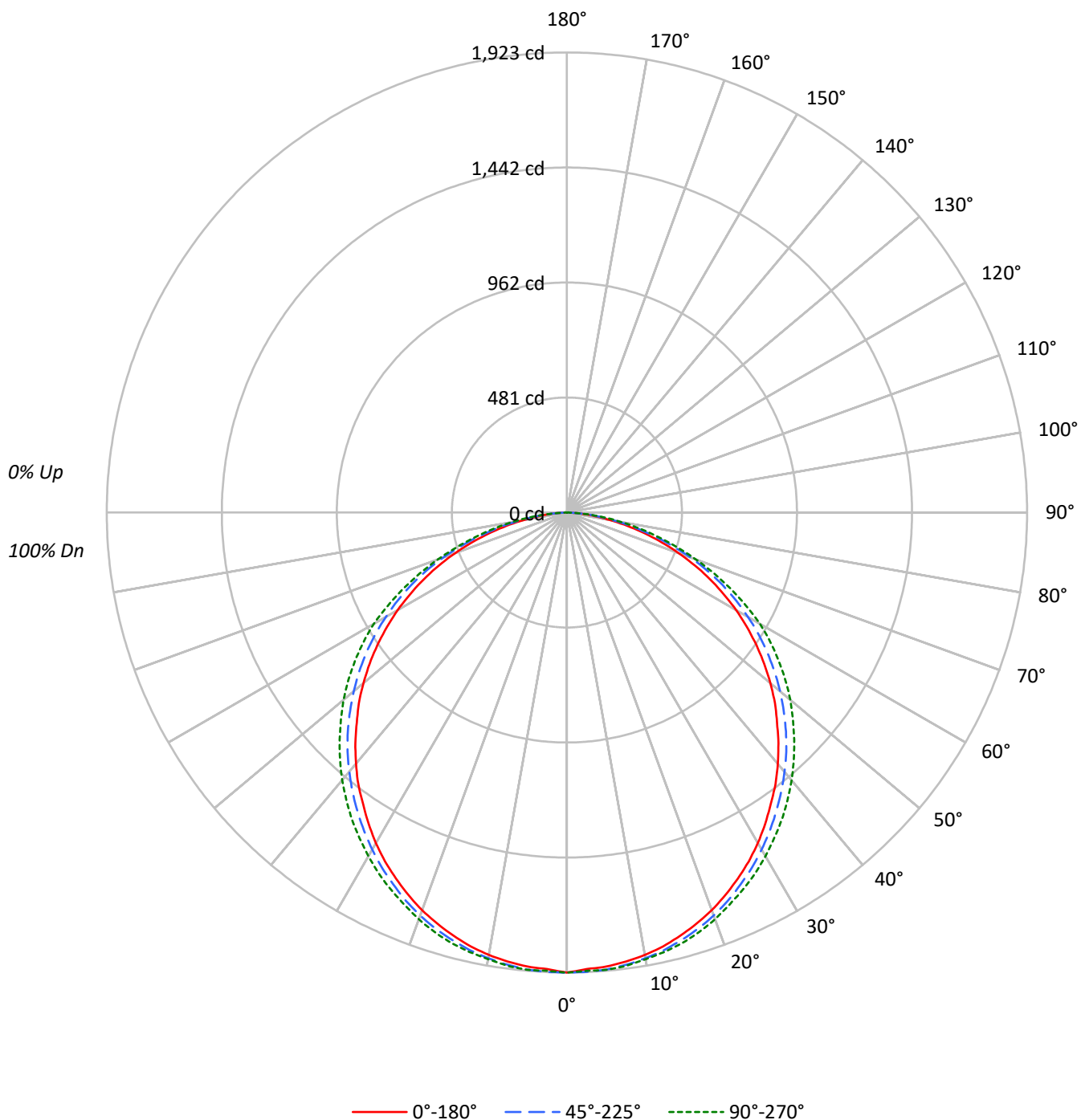
Lumens per Lamp: N/A
Luminaire Lumens: 5560.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6480	6480	6480
5°	6444	6486	6491
10°	6426	6474	6488
15°	6389	6455	6501
20°	6345	6430	6489
25°	6280	6381	6469
30°	6209	6330	6455
35°	6110	6275	6443
40°	6030	6224	6426
45°	5916	6170	6400
50°	5817	6096	6388
55°	5678	6010	6346
60°	5504	5890	6282
65°	5259	5729	6023
70°	4902	5410	5652
75°	4380	4880	5157
80°	3590	4114	4510
85°	2405	3004	3352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.3
10°-20°	522.2	9.4
20°-30°	790.7	14.2
30°-40°	954.8	17.2
40°-50°	997.9	17.9
50°-60°	914.4	16.4
60°-70°	705.8	12.7
70°-80°	397.0	7.1
80°-90°	95.0	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°	1495.0	26.9
0°-40°	2449.9	44.1
0°-60°	4362.1	78.5
0°-90°	5560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1905	1919	1918	1919	1919	181
15°	1832	1846	1850	1858	1864	517
25°	1689	1704	1716	1725	1740	778
35°	1485	1504	1526	1546	1566	931
45°	1242	1266	1295	1321	1343	959
55°	966	992	1023	1055	1080	863
65°	660	688	718	747	755	652
75°	336	368	375	390	396	357
85°	62	71	78	85	87	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1923.2	1923.2	1923.2	1923.2	1923.2
2.5°	1910.1	1924.8	1921.6	1926.5	1917.5
5°	1905.2	1919.1	1917.5	1919.1	1919.1
7.5°	1892.9	1907.7	1906.8	1909.3	1910.9
10°	1878.2	1892.1	1892.1	1894.6	1896.2
12.5°	1857.7	1872.5	1874.1	1878.2	1881.5
15°	1831.5	1846.3	1850.4	1857.7	1863.5
17.5°	1802.1	1817.6	1824.2	1831.5	1838.9
20°	1769.4	1783.3	1793.1	1798.8	1809.5
22.5°	1730.9	1746.4	1757.1	1762.8	1774.3
25°	1689.2	1703.9	1716.2	1725.2	1739.9
27.5°	1645.0	1659.7	1674.4	1685.1	1702.2
30°	1595.9	1611.4	1627.0	1643.3	1658.9
32.5°	1542.7	1560.7	1577.8	1595.9	1613.0
35°	1485.4	1504.2	1525.5	1545.9	1566.4
37.5°	1432.2	1449.4	1471.5	1493.6	1514.0
40°	1370.8	1389.6	1415.0	1439.5	1460.8
42.5°	1308.6	1329.1	1356.9	1380.6	1403.5
45°	1241.5	1266.0	1294.7	1320.9	1343.0
47.5°	1179.3	1200.6	1229.2	1257.9	1280.8
50°	1109.7	1133.5	1162.9	1193.2	1218.6
52.5°	1039.4	1063.9	1094.2	1124.5	1150.7
55°	966.5	991.9	1023.0	1054.9	1080.3
57.5°	892.0	919.0	951.0	982.9	1008.3
60°	816.7	843.8	874.0	909.2	932.1
62.5°	738.2	768.5	797.1	829.8	843.8
65°	659.6	688.3	718.5	747.2	755.4
67.5°	579.4	608.9	635.9	654.7	665.3
70°	497.6	529.5	549.1	567.1	573.7
72.5°	416.6	448.5	459.9	477.1	483.7
75°	336.4	367.5	374.8	390.4	396.1
77.5°	258.6	287.3	289.7	307.7	312.6
80°	185.0	207.9	212.0	229.1	232.4
82.5°	118.7	135.0	140.8	155.5	160.4
85°	62.2	71.2	77.7	85.1	86.7
87.5°	20.5	25.4	21.3	22.1	20.5
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	18.20	19.85	18.57	20.17	20.48	18.75	20.40	19.11	20.71	21.02
	3H	19.98	21.47	20.36	21.80	22.16	20.60	22.10	20.98	22.42	22.78
	4H	20.61	22.01	21.01	22.36	22.74	21.27	22.68	21.67	23.03	23.40
	6H	21.02	22.32	21.43	22.68	23.08	21.75	23.05	22.16	23.42	23.81
	8H	21.12	22.37	21.54	22.75	23.15	21.89	23.14	22.32	23.53	23.93
	12H	21.17	22.36	21.60	22.75	23.17	21.98	23.17	22.41	23.55	23.98
4H	2H	18.93	20.34	19.33	20.68	21.06	19.35	20.76	19.75	21.11	21.48
	3H	20.92	22.10	21.33	22.50	22.90	21.42	22.60	21.83	23.00	23.40
	4H	21.68	22.75	22.11	23.16	23.60	22.22	23.29	22.65	23.70	24.14
	6H	22.21	23.14	22.66	23.58	24.04	22.82	23.76	23.28	24.20	24.65
	8H	22.35	23.22	22.81	23.66	24.13	23.01	23.89	23.47	24.33	24.79
	12H	22.43	23.21	22.91	23.69	24.16	23.13	23.92	23.61	24.39	24.86
8H	4H	22.02	22.89	22.48	23.33	23.80	22.50	23.37	22.96	23.81	24.28
	6H	22.66	23.39	23.15	23.87	24.35	23.21	23.93	23.70	24.42	24.90
	8H	22.86	23.51	23.37	24.02	24.50	23.47	24.12	23.97	24.62	25.11
	12H	22.99	23.56	23.49	24.05	24.61	23.65	24.22	24.15	24.71	25.27
12H	4H	22.06	22.84	22.54	23.32	23.78	22.52	23.30	23.00	23.78	24.25
	6H	22.71	23.37	23.22	23.87	24.36	23.24	23.90	23.75	24.40	24.89
	8H	22.97	23.54	23.47	24.03	24.59	23.55	24.13	24.06	24.62	25.18