

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: P1584716

Luminaire Tested: 14CZSP-A-60VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584716
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-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

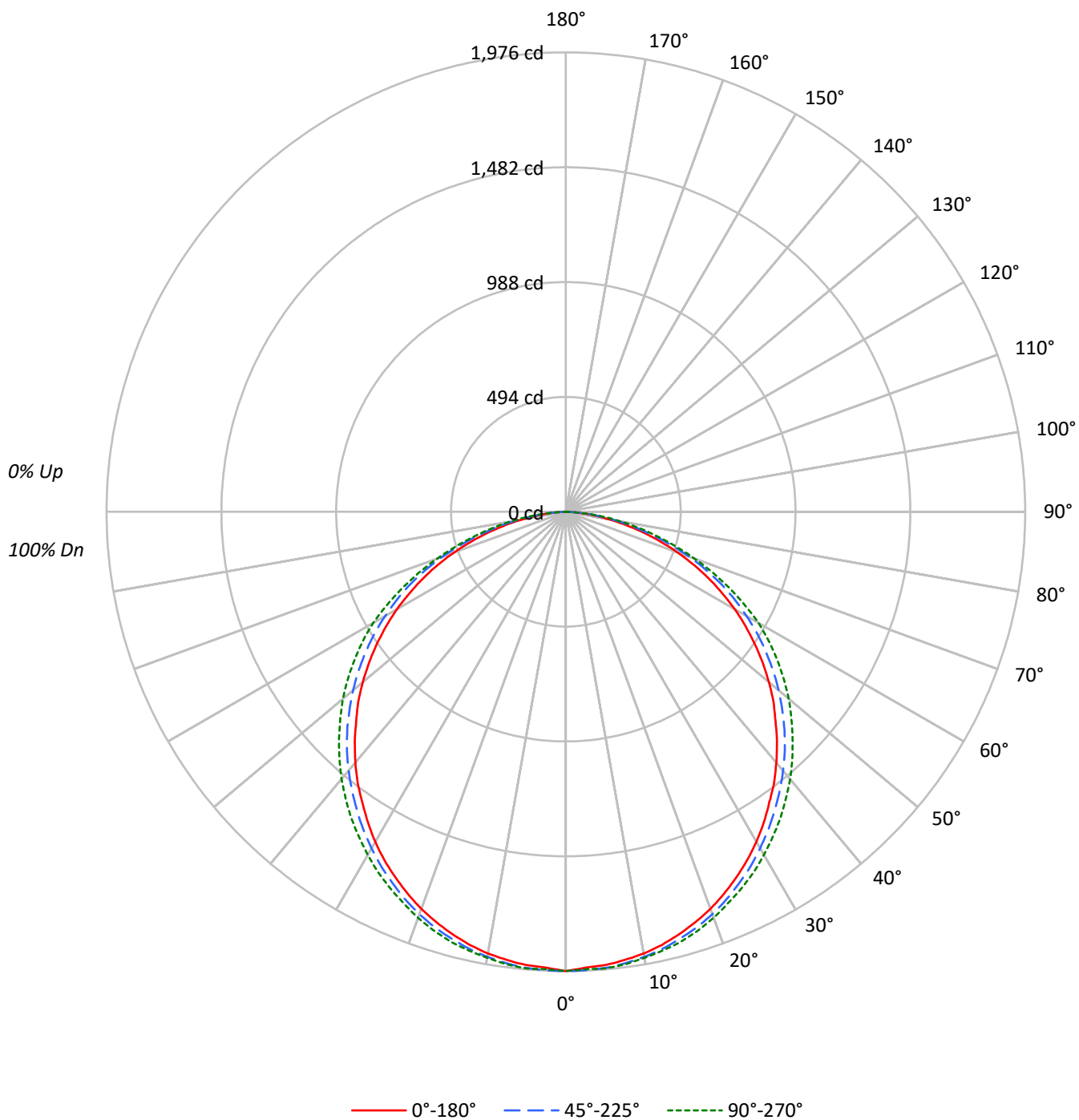
Lumens per Lamp: N/A
Luminaire Lumens: 5712.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	6658	6658	6658
5°	6620	6663	6669
10°	6602	6651	6665
15°	6564	6632	6678
20°	6518	6605	6666
25°	6452	6555	6646
30°	6379	6503	6631
35°	6277	6447	6619
40°	6195	6394	6602
45°	6078	6338	6575
50°	5977	6263	6563
55°	5833	6174	6520
60°	5655	6051	6453
65°	5403	5886	6187
70°	5036	5558	5807
75°	4499	5014	5297
80°	3687	4226	4634
85°	2470	3089	3445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6575 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.3
10°-20°	536.5	9.4
20°-30°	812.3	14.2
30°-40°	980.9	17.2
40°-50°	1025.2	17.9
50°-60°	939.4	16.4
60°-70°	725.1	12.7
70°-80°	407.9	7.1
80°-90°	97.6	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°	1535.9	26.9
0°-40°	2516.8	44.1
0°-60°	4481.4	78.5
0°-90°	5712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1957	1972	1970	1972	1972	186
15°	1882	1897	1901	1908	1914	531
25°	1735	1750	1763	1772	1788	800
35°	1526	1545	1567	1588	1609	956
45°	1275	1301	1330	1357	1380	986
55°	993	1019	1051	1084	1110	887
65°	678	707	738	768	776	670
75°	346	378	385	401	407	366
85°	64	73	80	87	89	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.8	1975.8	1975.8	1975.8	1975.8
2.5°	1962.3	1977.5	1974.1	1979.1	1969.9
5°	1957.3	1971.6	1969.9	1971.6	1971.6
7.5°	1944.7	1959.8	1959.0	1961.5	1963.2
10°	1929.5	1943.8	1943.8	1946.4	1948.0
12.5°	1908.5	1923.7	1925.3	1929.5	1932.9
15°	1881.6	1896.8	1901.0	1908.5	1914.4
17.5°	1851.4	1867.3	1874.1	1881.6	1889.2
20°	1817.7	1832.0	1842.1	1848.0	1858.9
22.5°	1778.2	1794.2	1805.1	1811.0	1822.8
25°	1735.3	1750.5	1763.1	1772.3	1787.5
27.5°	1689.9	1705.1	1720.2	1731.1	1748.8
30°	1639.5	1655.5	1671.4	1688.2	1704.2
32.5°	1584.8	1603.3	1621.0	1639.5	1657.1
35°	1526.0	1545.3	1567.2	1588.2	1609.2
37.5°	1471.3	1489.0	1511.7	1534.4	1555.4
40°	1408.3	1427.6	1453.7	1478.9	1500.8
42.5°	1344.4	1365.4	1394.0	1418.4	1441.9
45°	1275.4	1300.7	1330.1	1357.0	1379.7
47.5°	1211.5	1233.4	1262.8	1292.2	1315.8
50°	1140.1	1164.5	1194.7	1225.8	1251.9
52.5°	1067.8	1093.0	1124.1	1155.2	1182.1
55°	992.9	1019.0	1050.9	1083.7	1109.8
57.5°	916.4	944.2	977.0	1009.8	1035.8
60°	839.1	866.8	897.9	934.1	957.6
62.5°	758.4	789.5	818.9	852.5	866.8
65°	677.7	707.1	738.2	767.6	776.0
67.5°	595.3	625.5	653.3	672.6	683.5
70°	511.2	544.0	564.1	582.6	589.4
72.5°	427.9	460.7	472.5	490.2	496.9
75°	345.6	377.5	385.1	401.0	406.9
77.5°	265.7	295.1	297.6	316.1	321.2
80°	190.0	213.6	217.8	235.4	238.8
82.5°	121.9	138.7	144.6	159.7	164.8
85°	63.9	73.1	79.9	87.4	89.1
87.5°	21.0	26.1	21.9	22.7	21.0
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	18.30	19.95	18.66	20.26	20.58	18.84	20.49	19.20	20.80	21.12
	3H	20.07	21.57	20.45	21.89	22.25	20.70	22.19	21.07	22.51	22.87
	4H	20.70	22.11	21.10	22.46	22.83	21.36	22.77	21.76	23.12	23.49
	6H	21.11	22.41	21.52	22.78	23.17	21.84	23.15	22.25	23.51	23.90
	8H	21.21	22.46	21.64	22.85	23.25	21.99	23.23	22.41	23.62	24.02
	12H	21.26	22.46	21.69	22.84	23.27	22.07	23.26	22.50	23.65	24.07
4H	2H	19.02	20.43	19.42	20.78	21.15	19.45	20.85	19.84	21.20	21.58
	3H	21.02	22.20	21.43	22.60	22.99	21.52	22.70	21.93	23.09	23.49
	4H	21.78	22.84	22.21	23.26	23.69	22.31	23.38	22.74	23.79	24.23
	6H	22.30	23.24	22.76	23.68	24.13	22.92	23.85	23.37	24.29	24.74
	8H	22.44	23.32	22.90	23.76	24.22	23.11	23.98	23.57	24.42	24.89
	12H	22.52	23.31	23.00	23.78	24.25	23.23	24.01	23.71	24.49	24.96
8H	4H	22.11	22.99	22.57	23.43	23.89	22.59	23.46	23.05	23.90	24.37
	6H	22.75	23.48	23.25	23.97	24.44	23.30	24.03	23.79	24.52	24.99
	8H	22.95	23.60	23.46	24.11	24.59	23.56	24.21	24.07	24.72	25.20
	12H	23.08	23.66	23.59	24.15	24.71	23.74	24.32	24.25	24.81	25.37
12H	4H	22.15	22.93	22.63	23.41	23.88	22.61	23.40	23.09	23.87	24.34
	6H	22.81	23.46	23.32	23.97	24.45	23.34	23.99	23.85	24.50	24.98
	8H	23.06	23.63	23.57	24.12	24.68	23.65	24.22	24.15	24.71	25.27