

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: P1584418

Luminaire Tested: 14CZSP-60VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584418
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

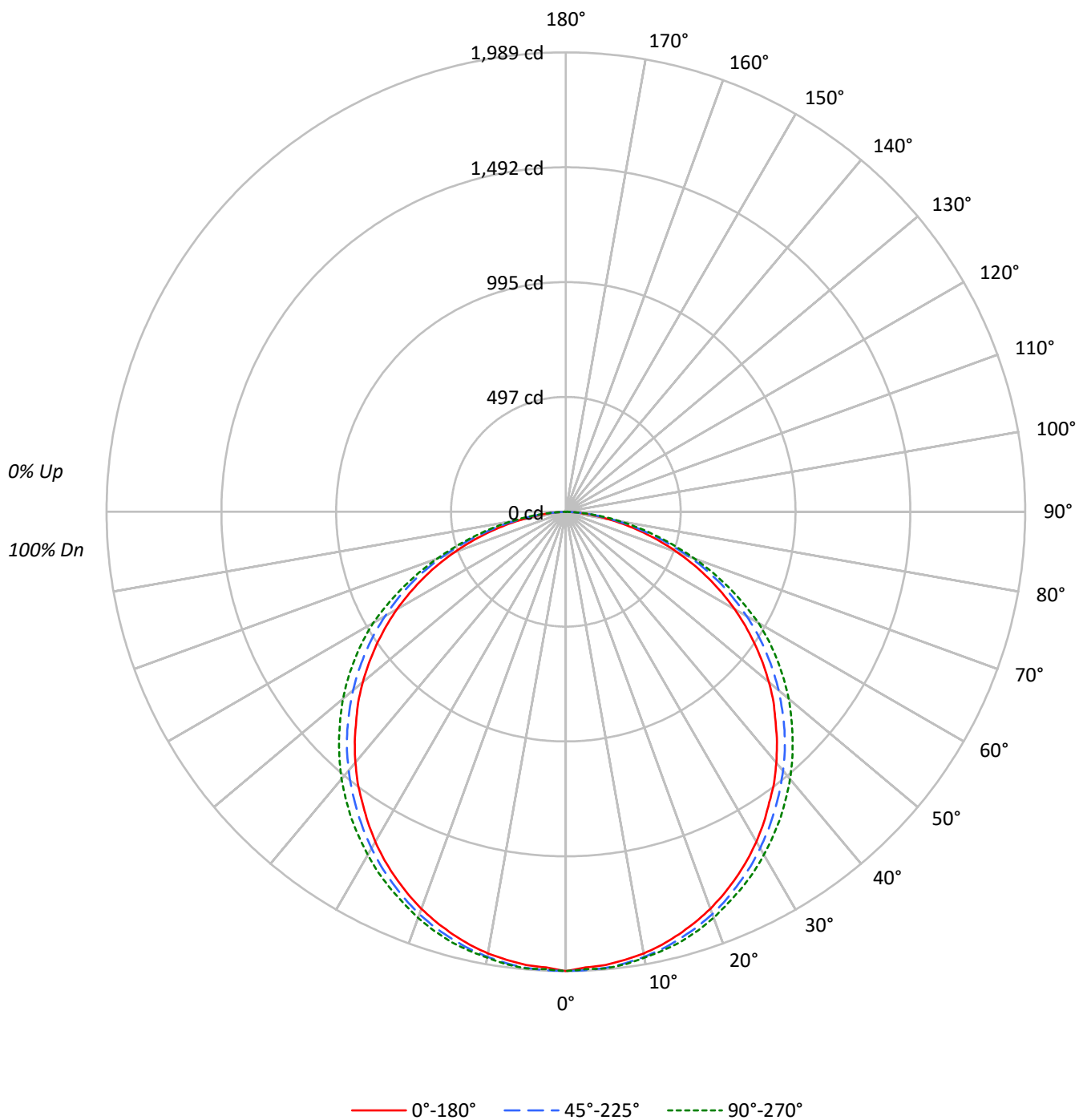
Lumens per Lamp: N/A
Luminaire Lumens: 5749.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6701	6701	6701
5°	6663	6706	6712
10°	6645	6694	6709
15°	6606	6674	6722
20°	6560	6648	6709
25°	6494	6597	6689
30°	6420	6546	6674
35°	6318	6488	6662
40°	6235	6436	6644
45°	6117	6379	6617
50°	6015	6304	6605
55°	5871	6214	6562
60°	5691	6090	6495
65°	5438	5924	6227
70°	5069	5594	5844
75°	4528	5046	5333
80°	3710	4253	4663
85°	2486	3108	3468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	3.3
10°-20°	539.9	9.4
20°-30°	817.6	14.2
30°-40°	987.3	17.2
40°-50°	1031.8	17.9
50°-60°	945.5	16.4
60°-70°	729.8	12.7
70°-80°	410.5	7.1
80°-90°	98.2	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°	1545.8	26.9
0°-40°	2533.1	44.1
0°-60°	4510.4	78.5
0°-90°	5749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1970	1984	1983	1984	1984	187
15°	1894	1909	1913	1921	1927	534
25°	1747	1762	1774	1784	1799	805
35°	1536	1555	1577	1598	1620	962
45°	1284	1309	1339	1366	1389	992
55°	999	1026	1058	1091	1117	893
65°	682	712	743	773	781	674
75°	348	380	388	404	410	369
85°	64	74	80	88	90	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.6	1988.6	1988.6	1988.6	1988.6
2.5°	1975.0	1990.3	1986.9	1992.0	1982.7
5°	1970.0	1984.4	1982.7	1984.4	1984.4
7.5°	1957.3	1972.5	1971.7	1974.2	1975.9
10°	1942.0	1956.4	1956.4	1959.0	1960.7
12.5°	1920.9	1936.1	1937.8	1942.0	1945.4
15°	1893.8	1909.0	1913.3	1920.9	1926.8
17.5°	1863.3	1879.4	1886.2	1893.8	1901.4
20°	1829.5	1843.9	1854.0	1860.0	1871.0
22.5°	1789.7	1805.8	1816.8	1822.7	1834.6
25°	1746.6	1761.8	1774.5	1783.8	1799.0
27.5°	1700.9	1716.1	1731.3	1742.3	1760.1
30°	1650.1	1666.2	1682.3	1699.2	1715.3
32.5°	1595.1	1613.7	1631.5	1650.1	1667.9
35°	1535.9	1555.3	1577.3	1598.5	1619.6
37.5°	1480.9	1498.6	1521.5	1544.3	1565.5
40°	1417.4	1436.9	1463.1	1488.5	1510.5
42.5°	1353.1	1374.2	1403.0	1427.5	1451.2
45°	1283.7	1309.1	1338.7	1365.8	1388.6
47.5°	1219.4	1241.4	1271.0	1300.6	1324.3
50°	1147.5	1172.0	1202.5	1233.8	1260.0
52.5°	1074.7	1100.1	1131.4	1162.7	1189.8
55°	999.4	1025.6	1057.8	1090.8	1117.0
57.5°	922.4	950.3	983.3	1016.3	1042.5
60°	844.5	872.4	903.7	940.1	963.8
62.5°	763.3	794.6	824.2	858.1	872.4
65°	682.0	711.7	743.0	772.6	781.0
67.5°	599.1	629.6	657.5	677.0	688.0
70°	514.5	547.5	567.8	586.4	593.2
72.5°	430.7	463.7	475.6	493.3	500.1
75°	347.8	379.9	387.6	403.6	409.6
77.5°	267.4	297.0	299.6	318.2	323.3
80°	191.2	214.9	219.2	236.9	240.3
82.5°	122.7	139.6	145.5	160.8	165.9
85°	64.3	73.6	80.4	88.0	89.7
87.5°	21.2	26.2	22.0	22.8	21.2
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	18.32	19.97	18.69	20.29	20.60	18.86	20.51	19.23	20.83	21.14
	3H	20.10	21.59	20.47	21.92	22.28	20.72	22.21	21.09	22.54	22.90
	4H	20.72	22.13	21.12	22.48	22.85	21.39	22.79	21.78	23.14	23.52
	6H	21.13	22.44	21.54	22.80	23.19	21.86	23.17	22.27	23.53	23.92
	8H	21.24	22.48	21.66	22.87	23.27	22.01	23.26	22.43	23.64	24.04
	12H	21.29	22.48	21.71	22.86	23.29	22.09	23.29	22.52	23.67	24.10
4H	2H	19.05	20.45	19.44	20.80	21.18	19.47	20.87	19.87	21.22	21.60
	3H	21.04	22.22	21.45	22.62	23.02	21.54	22.72	21.95	23.12	23.52
	4H	21.80	22.87	22.23	23.28	23.71	22.34	23.40	22.77	23.82	24.25
	6H	22.33	23.26	22.78	23.70	24.15	22.94	23.87	23.39	24.31	24.77
	8H	22.46	23.34	22.92	23.78	24.24	23.13	24.00	23.59	24.45	24.91
	12H	22.54	23.33	23.02	23.80	24.27	23.25	24.04	23.73	24.51	24.98
8H	4H	22.13	23.01	22.59	23.45	23.91	22.61	23.49	23.07	23.93	24.39
	6H	22.77	23.50	23.27	23.99	24.46	23.32	24.05	23.82	24.54	25.01
	8H	22.97	23.63	23.48	24.13	24.62	23.58	24.23	24.09	24.74	25.22
	12H	23.10	23.68	23.61	24.17	24.73	23.76	24.34	24.27	24.83	25.39
12H	4H	22.17	22.96	22.65	23.43	23.90	22.64	23.42	23.12	23.90	24.36
	6H	22.83	23.48	23.34	23.99	24.47	23.36	24.01	23.87	24.52	25.00
	8H	23.08	23.66	23.59	24.15	24.71	23.67	24.24	24.17	24.73	25.29