

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: P1584479

Luminaire Tested: 14CZSP-70VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584479
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-70VHE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

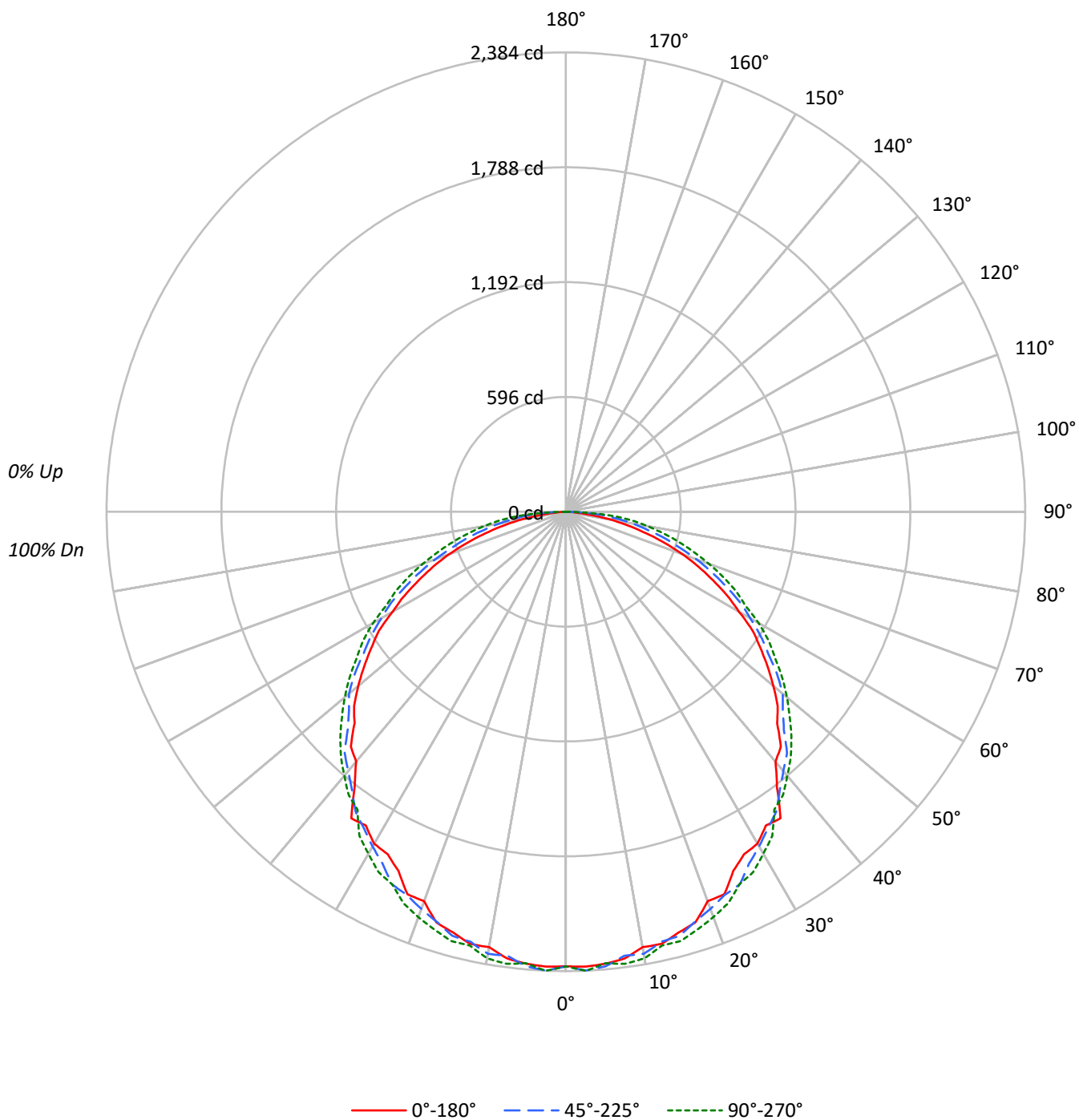
Lumens per Lamp: N/A
Luminaire Lumens: 7071.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 51.9
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7949	7949	7949
5°	7963	8008	7955
10°	7851	7972	8051
15°	7886	7945	8043
20°	7714	7866	8028
25°	7646	7935	7930
30°	7741	7802	7973
35°	7989	7824	7759
40°	7447	7725	7864
45°	7390	7627	7888
50°	7371	7703	7849
55°	7240	7533	7790
60°	6995	7445	7789
65°	6725	7316	7771
70°	6358	7112	7783
75°	5618	6946	7927
80°	4622	6768	8396
85°	2583	7141	9352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 9352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	3.2
10°-20°	641.8	9.1
20°-30°	975.3	13.8
30°-40°	1186.1	16.8
40°-50°	1245.0	17.6
50°-60°	1151.5	16.3
60°-70°	907.1	12.8
70°-80°	557.6	7.9
80°-90°	183.1	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°	1840.7	26.0
0°-40°	3026.7	42.8
0°-60°	5423.2	76.7
0°-90°	7071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2354	2313	2368	2347	2352	223
15°	2261	2254	2278	2308	2306	637
25°	2056	2094	2134	2128	2133	955
35°	1942	1873	1902	1931	1886	1177
45°	1551	1584	1601	1647	1655	1206
55°	1232	1271	1282	1315	1326	1102
65°	844	876	918	958	975	835
75°	432	479	534	588	609	459
85°	67	117	185	226	242	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.0	2359.0	2359.0	2359.0	2359.0
2.5°	2362.7	2366.3	2383.3	2345.6	2384.5
5°	2354.1	2312.8	2367.5	2346.9	2351.7
7.5°	2338.3	2343.2	2323.8	2335.9	2366.3
10°	2294.6	2325.0	2329.8	2334.7	2352.9
12.5°	2297.0	2277.6	2286.1	2321.3	2305.5
15°	2260.6	2254.5	2277.6	2308.0	2305.5
17.5°	2235.0	2221.7	2230.2	2244.8	2272.7
20°	2151.2	2186.4	2193.7	2238.7	2238.7
22.5°	2148.7	2147.5	2152.4	2175.5	2199.8
25°	2056.4	2094.1	2134.2	2128.1	2132.9
27.5°	2002.9	2045.4	2058.8	2100.1	2107.4
30°	1989.5	1996.8	2005.3	2050.3	2049.1
32.5°	1931.2	1943.4	1949.4	1975.0	1994.4
35°	1942.1	1872.9	1902.0	1931.2	1886.2
37.5°	1799.9	1810.9	1823.0	1844.9	1852.2
40°	1693.0	1720.9	1756.2	1781.7	1787.8
42.5°	1651.7	1693.0	1699.1	1722.2	1728.2
45°	1550.8	1583.6	1600.6	1646.8	1655.3
47.5°	1491.2	1496.1	1526.5	1570.2	1576.3
50°	1406.2	1439.0	1469.4	1488.8	1497.3
52.5°	1319.9	1356.3	1380.6	1398.9	1415.9
55°	1232.4	1271.3	1282.2	1315.0	1326.0
57.5°	1150.9	1163.1	1198.3	1229.9	1249.4
60°	1037.9	1079.2	1104.8	1163.1	1155.8
62.5°	946.8	974.7	1022.1	1051.3	1047.6
65°	843.5	876.3	917.6	957.7	974.7
67.5°	745.0	788.8	819.1	871.4	883.6
70°	645.4	666.0	721.9	773.0	790.0
72.5°	538.4	571.2	619.8	675.7	696.4
75°	431.5	478.9	533.5	588.2	608.9
77.5°	330.6	371.9	433.9	497.1	517.7
80°	238.2	275.9	348.8	407.1	432.7
82.5°	139.8	190.8	262.5	326.9	346.4
85°	66.8	116.7	184.7	226.1	241.9
87.5°	18.2	52.3	81.4	105.7	109.4
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	19.01	20.68	19.37	20.99	21.31	19.44	21.11	19.80	21.42	21.74
	3H	20.82	22.33	21.19	22.66	23.02	21.52	23.04	21.90	23.36	23.72
	4H	21.45	22.88	21.85	23.23	23.60	22.40	23.83	22.80	24.18	24.56
	6H	21.87	23.20	22.28	23.56	23.95	23.19	24.52	23.60	24.88	25.27
	8H	21.97	23.24	22.39	23.62	24.02	23.53	24.80	23.95	25.19	25.59
	12H	22.01	23.22	22.43	23.61	24.03	23.81	25.03	24.24	25.41	25.84
4H	2H	19.74	21.17	20.14	21.52	21.89	20.07	21.50	20.47	21.85	22.23
	3H	21.77	22.97	22.17	23.37	23.77	22.39	23.59	22.80	23.99	24.39
	4H	22.54	23.64	22.97	24.05	24.48	23.43	24.52	23.86	24.93	25.37
	6H	23.08	24.04	23.53	24.48	24.93	24.38	25.34	24.83	25.78	26.23
	8H	23.22	24.12	23.68	24.56	25.03	24.80	25.70	25.26	26.14	26.60
	12H	23.29	24.11	23.77	24.58	25.05	25.16	25.98	25.64	26.45	26.92
8H	4H	22.98	23.87	23.43	24.32	24.78	23.75	24.65	24.21	25.09	25.55
	6H	23.65	24.41	24.15	24.89	25.37	24.86	25.62	25.36	26.10	26.58
	8H	23.87	24.54	24.37	25.05	25.53	25.40	26.08	25.91	26.58	27.07
	12H	24.00	24.60	24.51	25.09	25.65	25.91	26.50	26.41	26.99	27.55
12H	4H	23.06	23.87	23.54	24.34	24.81	23.78	24.59	24.26	25.06	25.53
	6H	23.78	24.46	24.29	24.96	25.45	24.93	25.60	25.43	26.11	26.59
	8H	24.07	24.67	24.58	25.16	25.72	25.54	26.14	26.04	26.63	27.19