

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: P1584485

Luminaire Tested: 14CZSP-70VHE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584485
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

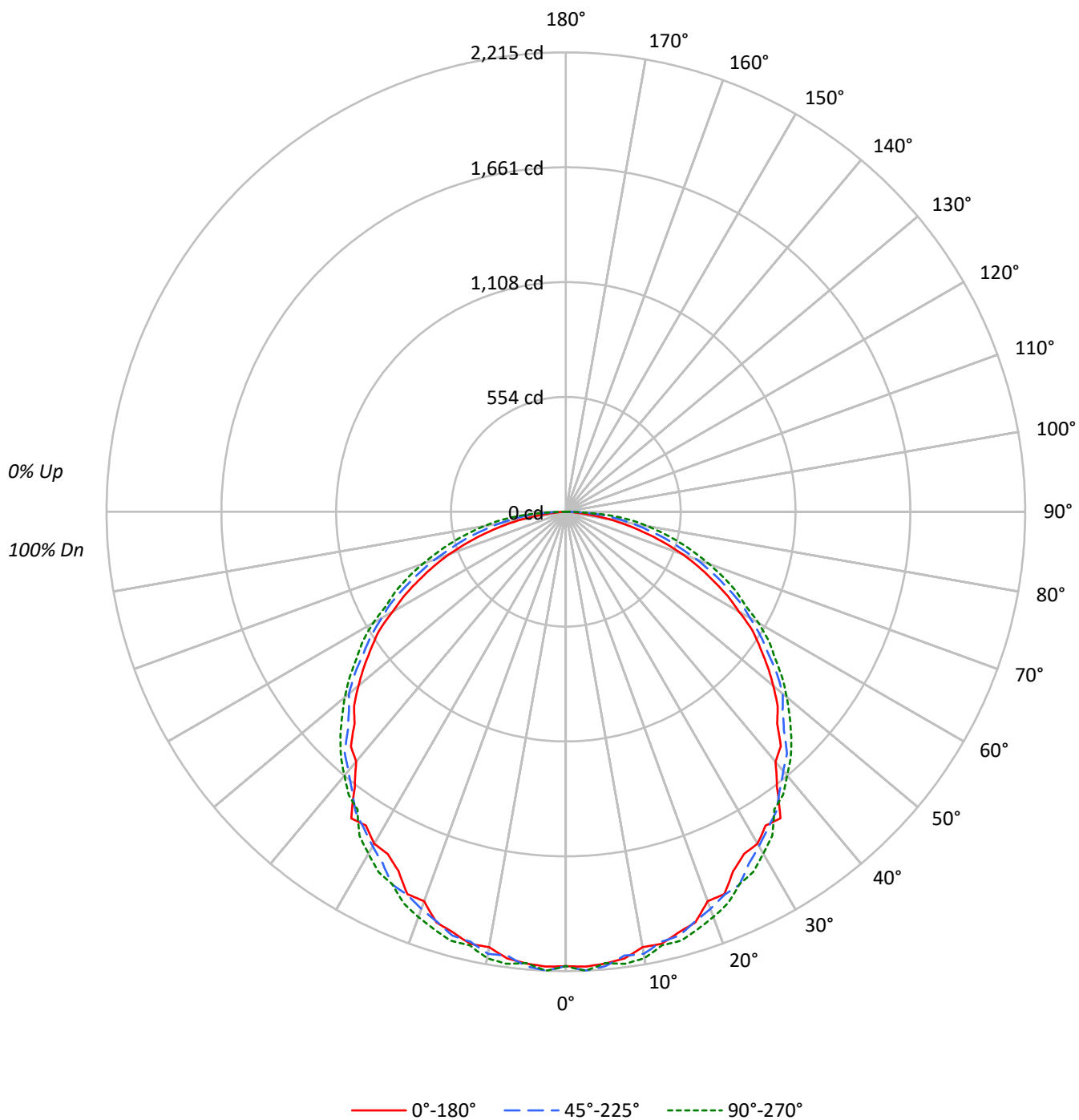
Lumens per Lamp: N/A
Luminaire Lumens: 6568.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7383	7383	7383
5°	7396	7438	7389
10°	7293	7405	7478
15°	7325	7380	7471
20°	7165	7307	7456
25°	7102	7370	7366
30°	7190	7247	7405
35°	7421	7267	7207
40°	6917	7176	7304
45°	6864	7085	7327
50°	6847	7154	7291
55°	6725	6997	7235
60°	6497	6916	7235
65°	6247	6795	7219
70°	5905	6607	7229
75°	5218	6452	7364
80°	4294	6287	7799
85°	2401	6634	8687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8687 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	3.2
10°-20°	596.1	9.1
20°-30°	905.9	13.8
30°-40°	1101.7	16.8
40°-50°	1156.5	17.6
50°-60°	1069.6	16.3
60°-70°	842.6	12.8
70°-80°	517.9	7.9
80°-90°	170.1	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°	1709.7	26.0
0°-40°	2811.4	42.8
0°-60°	5037.4	76.7
0°-90°	6568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2191	2191	2191	2191	2191	
5°	2187	2148	2199	2180	2184	207
15°	2100	2094	2116	2144	2142	592
25°	1910	1945	1982	1977	1981	887
35°	1804	1740	1767	1794	1752	1093
45°	1440	1471	1487	1530	1538	1120
55°	1145	1181	1191	1222	1232	1023
65°	784	814	852	890	905	776
75°	401	445	496	546	566	427
85°	62	108	172	210	225	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2194.6	2198.0	2213.8	2178.8	2214.9
5°	2186.7	2148.3	2199.1	2179.9	2184.4
7.5°	2172.0	2176.5	2158.5	2169.7	2198.0
10°	2131.4	2159.6	2164.1	2168.6	2185.6
12.5°	2133.6	2115.6	2123.5	2156.2	2141.5
15°	2099.8	2094.1	2115.6	2143.8	2141.5
17.5°	2076.0	2063.6	2071.5	2085.1	2111.0
20°	1998.2	2030.9	2037.7	2079.4	2079.4
22.5°	1995.9	1994.8	1999.3	2020.7	2043.3
25°	1910.1	1945.1	1982.4	1976.7	1981.2
27.5°	1860.4	1899.9	1912.4	1950.7	1957.5
30°	1848.0	1854.8	1862.7	1904.5	1903.3
32.5°	1793.8	1805.1	1810.8	1834.5	1852.5
35°	1804.0	1739.6	1766.7	1793.8	1752.1
37.5°	1671.9	1682.1	1693.4	1713.7	1720.4
40°	1572.6	1598.5	1631.3	1655.0	1660.6
42.5°	1534.2	1572.6	1578.2	1599.7	1605.3
45°	1440.5	1471.0	1486.8	1529.7	1537.6
47.5°	1385.2	1389.7	1417.9	1458.5	1464.2
50°	1306.1	1336.6	1364.8	1382.9	1390.8
52.5°	1226.0	1259.9	1282.4	1299.4	1315.2
55°	1144.7	1180.8	1191.0	1221.5	1231.6
57.5°	1069.1	1080.4	1113.1	1142.4	1160.5
60°	964.1	1002.5	1026.2	1080.4	1073.6
62.5°	879.4	905.4	949.4	976.5	973.1
65°	783.5	813.9	852.3	889.6	905.4
67.5°	692.0	732.7	760.9	809.4	820.7
70°	599.4	618.6	670.6	718.0	733.8
72.5°	500.1	530.6	575.7	627.7	646.9
75°	400.8	444.8	495.6	546.4	565.6
77.5°	307.1	345.4	403.0	461.7	480.9
80°	221.3	256.3	324.0	378.2	401.9
82.5°	129.8	177.2	243.8	303.7	321.7
85°	62.1	108.4	171.6	210.0	224.7
87.5°	16.9	48.5	75.6	98.2	101.6
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	18.75	20.42	19.12	20.74	21.05	19.18	20.85	19.55	21.17	21.48
	3H	20.56	22.07	20.94	22.40	22.76	21.27	22.78	21.64	23.11	23.47
	4H	21.20	22.63	21.59	22.97	23.35	22.15	23.58	22.55	23.93	24.30
	6H	21.61	22.94	22.02	23.30	23.69	22.93	24.26	23.34	24.62	25.01
	8H	21.71	22.98	22.13	23.37	23.77	23.27	24.54	23.70	24.93	25.33
	12H	21.75	22.97	22.18	23.35	23.78	23.56	24.78	23.99	25.16	25.59
4H	2H	19.48	20.91	19.88	21.26	21.63	19.82	21.25	20.21	21.59	21.97
	3H	21.51	22.72	21.92	23.11	23.51	22.13	23.34	22.54	23.73	24.13
	4H	22.29	23.38	22.72	23.79	24.23	23.17	24.26	23.60	24.68	25.11
	6H	22.83	23.78	23.28	24.22	24.68	24.12	25.08	24.57	25.52	25.97
	8H	22.96	23.86	23.42	24.31	24.77	24.54	25.44	25.00	25.88	26.35
	12H	23.04	23.85	23.52	24.32	24.79	24.91	25.72	25.39	26.19	26.66
8H	4H	22.72	23.62	23.18	24.06	24.52	23.49	24.39	23.95	24.83	25.30
	6H	23.40	24.15	23.89	24.64	25.11	24.61	25.36	25.10	25.85	26.32
	8H	23.61	24.29	24.12	24.79	25.28	25.15	25.82	25.65	26.33	26.81
	12H	23.75	24.35	24.25	24.84	25.39	25.65	26.25	26.15	26.74	27.30
12H	4H	22.80	23.61	23.28	24.09	24.55	23.52	24.33	24.00	24.81	25.28
	6H	23.53	24.20	24.03	24.71	25.19	24.67	25.35	25.18	25.85	26.33
	8H	23.82	24.41	24.32	24.90	25.46	25.28	25.88	25.79	26.37	26.93