

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: P1584478

Luminaire Tested: 14CZSP-70VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584478
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-70VHE-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

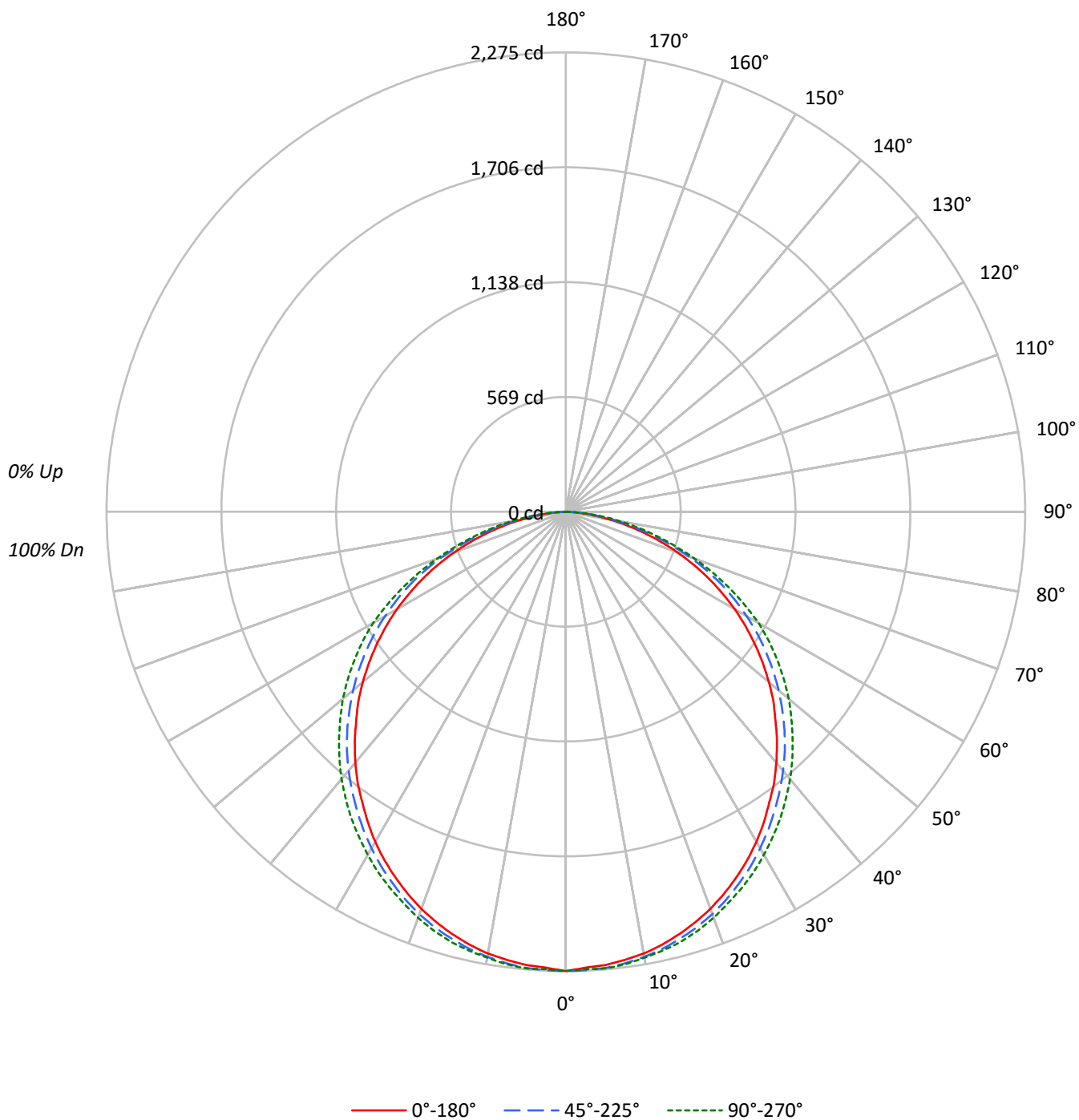
Lumens per Lamp: N/A
Luminaire Lumens: 6576.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7664	7664	7664
5°	7622	7671	7677
10°	7601	7657	7674
15°	7557	7634	7689
20°	7504	7604	7674
25°	7428	7547	7651
30°	7344	7487	7634
35°	7227	7422	7621
40°	7132	7362	7600
45°	6997	7297	7569
50°	6880	7210	7555
55°	6715	7108	7506
60°	6510	6967	7430
65°	6221	6776	7123
70°	5798	6399	6685
75°	5179	5771	6099
80°	4246	4865	5334
85°	2845	3557	3967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	3.3
10°-20°	617.6	9.4
20°-30°	935.2	14.2
30°-40°	1129.3	17.2
40°-50°	1180.2	17.9
50°-60°	1081.5	16.4
60°-70°	834.8	12.7
70°-80°	469.6	7.1
80°-90°	112.4	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°	1768.2	26.9
0°-40°	2897.5	44.1
0°-60°	5159.2	78.5
0°-90°	6576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2253	2270	2268	2270	2270	214
15°	2166	2184	2188	2197	2204	611
25°	1998	2015	2030	2040	2058	921
35°	1757	1779	1804	1828	1853	1101
45°	1468	1497	1531	1562	1588	1135
55°	1143	1173	1210	1248	1278	1021
65°	780	814	850	884	893	771
75°	398	435	443	462	468	422
85°	74	84	92	101	103	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.6	2274.6	2274.6	2274.6	2274.6
2.5°	2259.2	2276.6	2272.7	2278.5	2267.9
5°	2253.3	2269.8	2267.9	2269.8	2269.8
7.5°	2238.8	2256.3	2255.3	2258.2	2260.1
10°	2221.4	2237.9	2237.9	2240.8	2242.7
12.5°	2197.2	2214.6	2216.6	2221.4	2225.3
15°	2166.2	2183.7	2188.5	2197.2	2204.0
17.5°	2131.4	2149.8	2157.5	2166.2	2174.9
20°	2092.7	2109.1	2120.7	2127.5	2140.1
22.5°	2047.2	2065.6	2078.2	2084.9	2098.5
25°	1997.8	2015.2	2029.8	2040.4	2057.8
27.5°	1945.5	1963.0	1980.4	1993.0	2013.3
30°	1887.5	1905.9	1924.3	1943.6	1962.0
32.5°	1824.6	1845.8	1866.2	1887.5	1907.8
35°	1756.8	1779.1	1804.2	1828.4	1852.6
37.5°	1693.9	1714.2	1740.3	1766.5	1790.7
40°	1621.3	1643.6	1673.6	1702.6	1727.8
42.5°	1547.7	1571.9	1604.8	1632.9	1660.0
45°	1468.4	1497.4	1531.3	1562.2	1588.4
47.5°	1394.8	1420.0	1453.8	1487.7	1514.8
50°	1312.5	1340.6	1375.4	1411.2	1441.3
52.5°	1229.3	1258.3	1294.1	1329.9	1360.9
55°	1143.1	1173.1	1209.9	1247.7	1277.7
57.5°	1055.0	1087.0	1124.7	1162.5	1192.5
60°	966.0	997.9	1033.8	1075.4	1102.5
62.5°	873.1	908.9	942.8	981.5	997.9
65°	780.2	814.0	849.8	883.7	893.4
67.5°	685.3	720.1	752.1	774.3	786.9
70°	588.5	626.3	649.5	670.8	678.5
72.5°	492.7	530.4	544.0	564.3	572.0
75°	397.8	434.6	443.3	461.7	468.5
77.5°	305.9	339.7	342.6	363.9	369.8
80°	218.8	245.9	250.7	271.0	274.9
82.5°	140.4	159.7	166.5	183.9	189.7
85°	73.6	84.2	92.0	100.7	102.6
87.5°	24.2	30.0	25.2	26.1	24.2
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	18.79	20.44	19.15	20.75	21.07	19.33	20.98	19.69	21.29	21.61
	3H	20.56	22.06	20.94	22.38	22.74	21.18	22.68	21.56	23.00	23.36
	4H	21.19	22.60	21.59	22.94	23.32	21.85	23.26	22.25	23.61	23.98
	6H	21.60	22.90	22.01	23.27	23.66	22.33	23.64	22.74	24.00	24.39
	8H	21.70	22.95	22.13	23.34	23.74	22.48	23.72	22.90	24.11	24.51
	12H	21.75	22.95	22.18	23.33	23.76	22.56	23.75	22.99	24.14	24.56
4H	2H	19.51	20.92	19.91	21.27	21.64	19.93	21.34	20.33	21.69	22.06
	3H	21.51	22.69	21.92	23.08	23.48	22.01	23.19	22.42	23.58	23.98
	4H	22.26	23.33	22.70	23.75	24.18	22.80	23.87	23.23	24.28	24.72
	6H	22.79	23.73	23.25	24.17	24.62	23.41	24.34	23.86	24.78	25.23
	8H	22.93	23.81	23.39	24.25	24.71	23.60	24.47	24.06	24.91	25.38
	12H	23.01	23.80	23.49	24.27	24.74	23.72	24.50	24.20	24.98	25.45
8H	4H	22.60	23.48	23.06	23.92	24.38	23.08	23.95	23.54	24.39	24.86
	6H	23.24	23.97	23.73	24.46	24.93	23.79	24.52	24.28	25.00	25.48
	8H	23.44	24.09	23.95	24.60	25.08	24.05	24.70	24.56	25.20	25.69
	12H	23.57	24.15	24.08	24.64	25.20	24.23	24.81	24.74	25.30	25.86
12H	4H	22.64	23.42	23.12	23.90	24.37	23.10	23.89	23.58	24.36	24.83
	6H	23.30	23.95	23.81	24.45	24.94	23.83	24.48	24.34	24.99	25.47
	8H	23.55	24.12	24.05	24.61	25.17	24.14	24.71	24.64	25.20	25.76