

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: P1584480

Luminaire Tested: 14CZSP-70VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584480
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

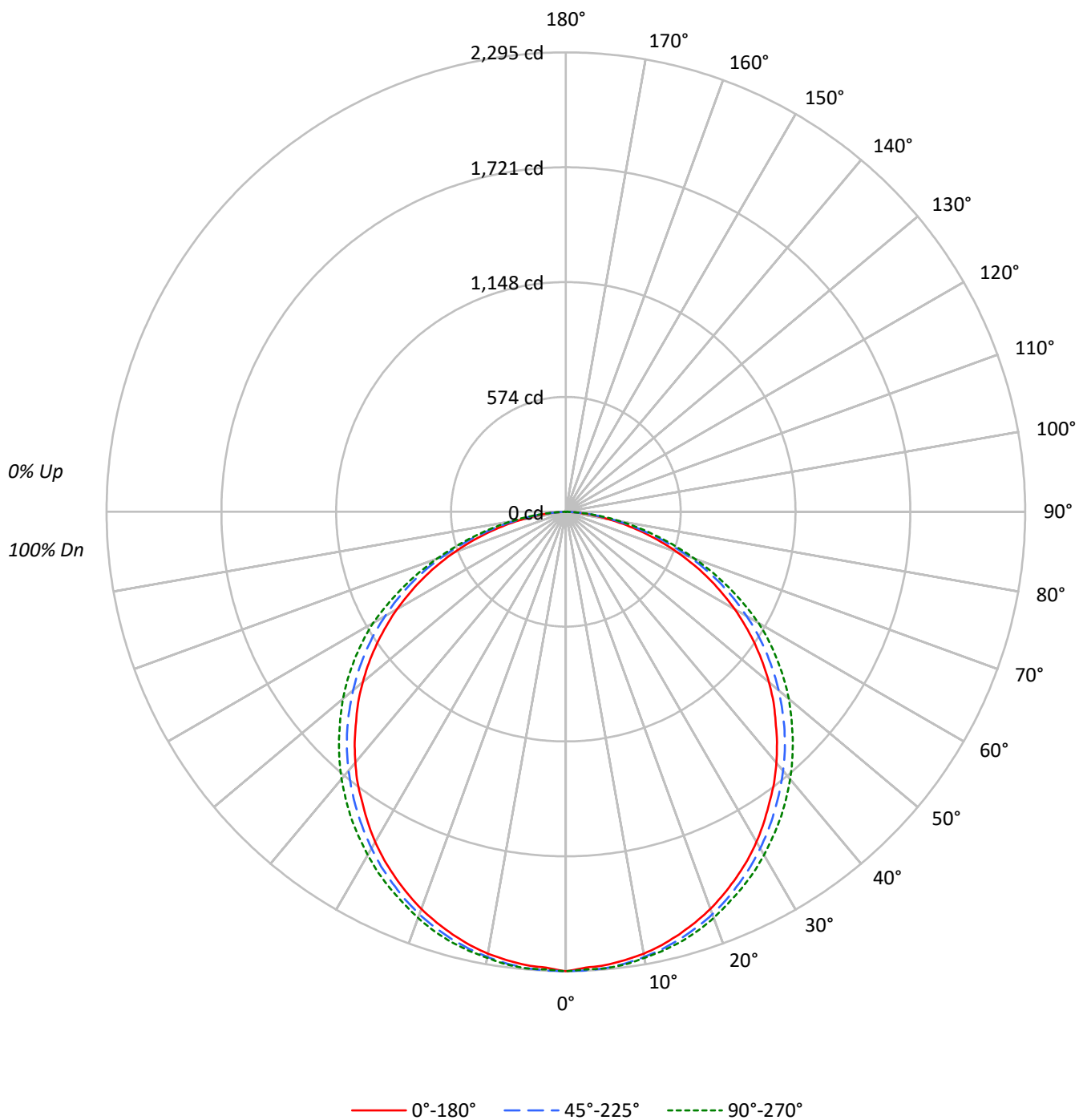
Lumens per Lamp: N/A
Luminaire Lumens: 6636.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7735	7735	7735
5°	7691	7741	7747
10°	7670	7727	7744
15°	7626	7704	7759
20°	7573	7674	7744
25°	7495	7615	7721
30°	7411	7555	7704
35°	7292	7489	7690
40°	7197	7428	7669
45°	7061	7363	7638
50°	6943	7276	7624
55°	6777	7173	7574
60°	6569	7030	7497
65°	6277	6838	7189
70°	5851	6457	6746
75°	5227	5825	6155
80°	4283	4909	5383
85°	2869	3588	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	3.3
10°-20°	623.2	9.4
20°-30°	943.7	14.2
30°-40°	1139.6	17.2
40°-50°	1191.0	17.9
50°-60°	1091.4	16.4
60°-70°	842.4	12.7
70°-80°	473.9	7.1
80°-90°	113.4	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°	1784.3	26.9
0°-40°	2924.0	44.1
0°-60°	5206.3	78.5
0°-90°	6636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2295	2295	2295	2295	2295	
5°	2274	2290	2289	2290	2290	216
15°	2186	2204	2208	2217	2224	617
25°	2016	2034	2048	2059	2077	929
35°	1773	1795	1821	1845	1870	1111
45°	1482	1511	1545	1576	1603	1145
55°	1154	1184	1221	1259	1289	1031
65°	787	822	858	892	902	778
75°	402	439	447	466	473	426
85°	74	85	93	102	104	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2295.4	2295.4	2295.4	2295.4	2295.4
2.5°	2279.8	2297.4	2293.4	2299.3	2288.6
5°	2273.9	2290.5	2288.6	2290.5	2290.5
7.5°	2259.3	2276.8	2275.9	2278.8	2280.7
10°	2241.7	2258.3	2258.3	2261.2	2263.2
12.5°	2217.3	2234.8	2236.8	2241.7	2245.6
15°	2186.0	2203.6	2208.5	2217.3	2224.1
17.5°	2150.8	2169.4	2177.2	2186.0	2194.8
20°	2111.8	2128.4	2140.1	2146.9	2159.6
22.5°	2065.9	2084.4	2097.1	2104.0	2117.6
25°	2016.0	2033.6	2048.3	2059.0	2076.6
27.5°	1963.3	1980.9	1998.5	2011.2	2031.7
30°	1904.7	1923.3	1941.8	1961.3	1979.9
32.5°	1841.2	1862.7	1883.2	1904.7	1925.2
35°	1772.8	1795.3	1820.7	1845.1	1869.5
37.5°	1709.3	1729.9	1756.2	1782.6	1807.0
40°	1636.1	1658.5	1688.8	1718.1	1743.5
42.5°	1561.8	1586.3	1619.5	1647.8	1675.2
45°	1481.8	1511.1	1545.2	1576.5	1602.9
47.5°	1407.5	1432.9	1467.1	1501.3	1528.6
50°	1324.5	1352.8	1388.0	1424.1	1454.4
52.5°	1240.5	1269.8	1305.9	1342.1	1373.3
55°	1153.6	1183.8	1221.0	1259.1	1289.3
57.5°	1064.7	1096.9	1135.0	1173.1	1203.4
60°	974.8	1007.0	1043.2	1085.2	1112.5
62.5°	881.0	917.2	951.4	990.4	1007.0
65°	787.3	821.5	857.6	891.8	901.6
67.5°	691.5	726.7	758.9	781.4	794.1
70°	593.9	632.0	655.4	676.9	684.7
72.5°	497.2	535.3	548.9	569.5	577.3
75°	401.5	438.6	447.4	465.9	472.8
77.5°	308.7	342.8	345.8	367.3	373.1
80°	220.7	248.1	253.0	273.5	277.4
82.5°	141.6	161.2	168.0	185.6	191.4
85°	74.2	85.0	92.8	101.6	103.5
87.5°	24.4	30.3	25.4	26.4	24.4
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	18.82	20.47	19.18	20.78	21.10	19.36	21.01	19.72	21.32	21.64
	3H	20.60	22.09	20.97	22.41	22.77	21.22	22.71	21.59	23.04	23.40
	4H	21.22	22.63	21.62	22.98	23.35	21.89	23.29	22.28	23.64	24.01
	6H	21.63	22.94	22.04	23.30	23.69	22.36	23.67	22.77	24.03	24.42
	8H	21.73	22.98	22.16	23.37	23.77	22.51	23.75	22.93	24.14	24.54
	12H	21.78	22.98	22.21	23.36	23.79	22.59	23.79	23.02	24.17	24.60
4H	2H	19.54	20.95	19.94	21.30	21.67	19.97	21.37	20.36	21.72	22.10
	3H	21.54	22.72	21.95	23.12	23.52	22.04	23.22	22.45	23.62	24.02
	4H	22.30	23.36	22.73	23.78	24.21	22.83	23.90	23.27	24.32	24.75
	6H	22.82	23.76	23.28	24.20	24.65	23.44	24.37	23.89	24.81	25.27
	8H	22.96	23.84	23.42	24.28	24.74	23.63	24.50	24.09	24.94	25.41
	12H	23.04	23.83	23.52	24.30	24.77	23.75	24.53	24.23	25.01	25.48
8H	4H	22.63	23.51	23.09	23.95	24.41	23.11	23.98	23.57	24.43	24.89
	6H	23.27	24.00	23.77	24.49	24.96	23.82	24.55	24.32	25.04	25.51
	8H	23.47	24.12	23.98	24.63	25.12	24.08	24.73	24.59	25.24	25.72
	12H	23.60	24.18	24.11	24.67	25.23	24.26	24.84	24.77	25.33	25.89
12H	4H	22.67	23.46	23.15	23.93	24.40	23.13	23.92	23.61	24.39	24.86
	6H	23.33	23.98	23.84	24.49	24.97	23.86	24.51	24.37	25.02	25.50
	8H	23.58	24.16	24.09	24.65	25.21	24.17	24.74	24.67	25.23	25.79