

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: P1585882

Luminaire Tested: 14CZSP-SB-70VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70VHE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

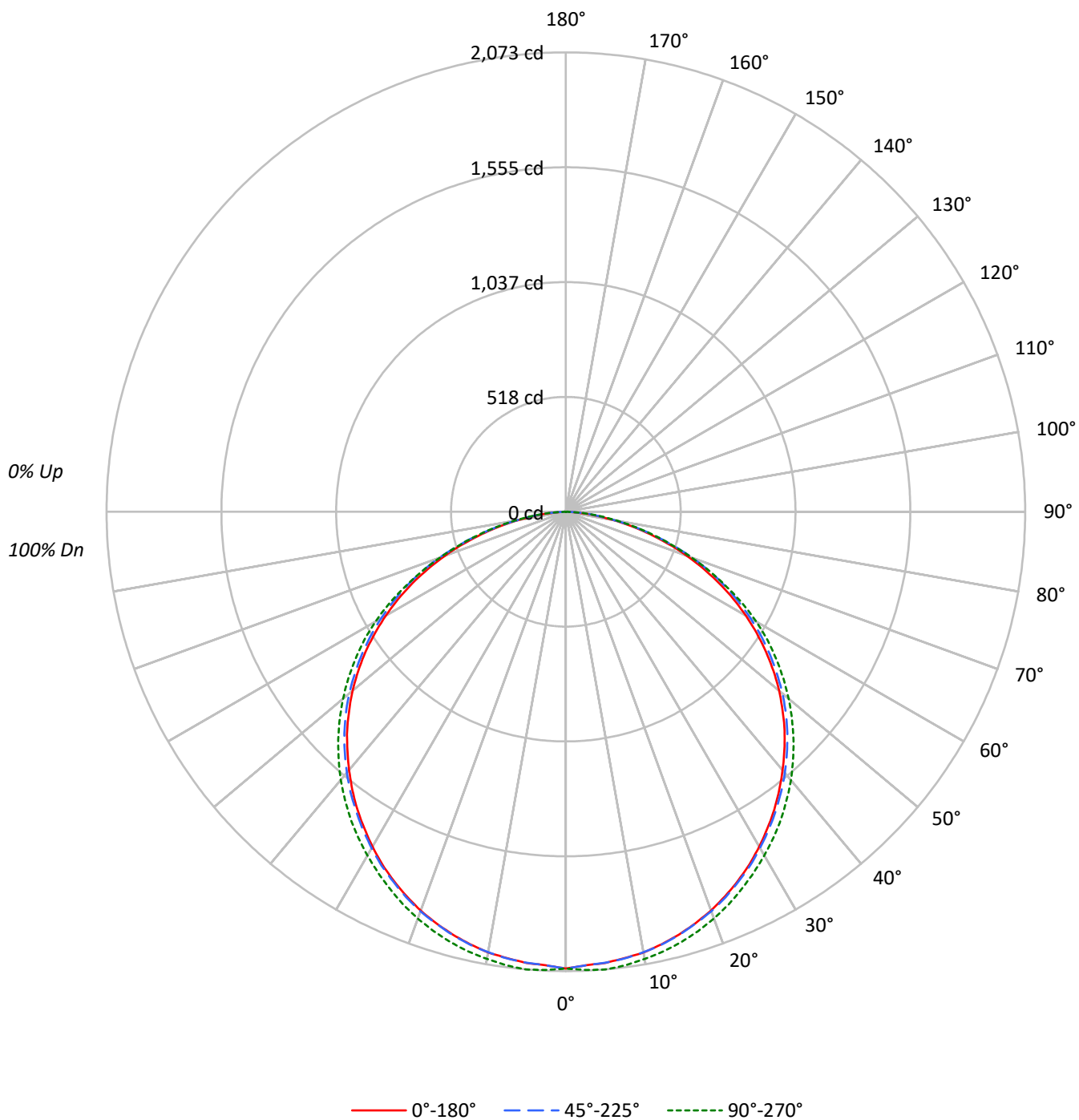
Lumens per Lamp: N/A
Luminaire Lumens: 6083.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6946	6946	6946
5°	6912	6909	7013
10°	6909	6906	7011
15°	6889	6895	7015
20°	6867	6880	7004
25°	6833	6850	6982
30°	6791	6821	6969
35°	6747	6789	6966
40°	6695	6764	6953
45°	6653	6738	6924
50°	6587	6689	6880
55°	6484	6605	6813
60°	6327	6490	6691
65°	6090	6320	6386
70°	5726	5992	5956
75°	5141	5360	5396
80°	4248	4465	4700
85°	2845	3313	3495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.2
10°-20°	561.6	9.2
20°-30°	855.2	14.1
30°-40°	1040.7	17.1
40°-50°	1097.2	18.0
50°-60°	1010.5	16.6
60°-70°	780.5	12.8
70°-80°	436.7	7.2
80°-90°	105.2	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°	1612.1	26.5
0°-40°	2652.8	43.6
0°-60°	4760.5	78.3
0°-90°	6083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2044	2072	2043	2046	2073	194
15°	1975	2002	1976	1988	2011	557
25°	1838	1864	1842	1854	1878	847
35°	1640	1664	1650	1671	1693	1026
45°	1396	1416	1414	1435	1453	1076
55°	1104	1122	1124	1148	1160	985
65°	764	786	793	800	801	755
75°	395	419	412	411	414	419
85°	74	81	86	96	90	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2061.3	2061.3	2061.3	2061.3	2061.3
2.5°	2048.3	2078.1	2048.3	2052.9	2069.7
5°	2043.6	2072.5	2042.7	2045.5	2073.4
7.5°	2031.5	2061.3	2033.4	2037.1	2064.1
10°	2019.4	2046.4	2018.5	2023.1	2049.2
12.5°	1998.9	2026.8	2000.8	2006.3	2032.4
15°	1974.7	2001.7	1976.5	1987.7	2011.0
17.5°	1946.7	1972.8	1948.6	1961.6	1984.0
20°	1915.1	1940.2	1918.8	1928.1	1953.3
22.5°	1877.8	1903.9	1883.4	1891.8	1918.8
25°	1837.8	1863.8	1842.4	1854.5	1877.8
27.5°	1794.0	1819.1	1800.5	1815.4	1835.9
30°	1745.5	1769.8	1753.0	1770.7	1791.2
32.5°	1693.4	1719.5	1702.7	1723.2	1743.7
35°	1640.3	1664.5	1650.5	1671.0	1693.4
37.5°	1582.5	1605.8	1595.6	1617.0	1637.5
40°	1522.0	1548.1	1537.8	1560.2	1580.7
42.5°	1459.6	1484.7	1476.4	1499.6	1517.3
45°	1396.2	1415.8	1413.9	1435.4	1453.1
47.5°	1326.4	1350.6	1346.9	1368.3	1384.1
50°	1256.5	1276.1	1276.1	1296.6	1312.4
52.5°	1181.1	1200.6	1200.6	1224.9	1237.9
55°	1103.8	1122.4	1124.3	1147.5	1159.7
57.5°	1021.8	1041.4	1045.1	1068.4	1079.6
60°	938.9	957.5	963.1	986.4	992.9
62.5°	852.3	874.6	877.4	896.1	899.8
65°	763.8	786.1	792.7	800.1	801.0
67.5°	673.4	696.7	703.2	703.2	703.2
70°	581.2	602.7	608.2	604.5	604.5
72.5°	488.1	511.4	508.6	504.8	506.7
75°	394.9	419.2	411.7	410.8	414.5
77.5°	305.5	328.8	316.7	324.1	325.1
80°	218.9	236.6	230.1	241.2	242.2
82.5°	140.6	151.8	153.7	163.0	160.2
85°	73.6	81.0	85.7	95.9	90.4
87.5°	23.3	30.7	27.9	32.6	25.1
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	18.77	20.42	19.13	20.74	21.05	18.99	20.64	19.35	20.95	21.27
	3H	20.59	22.09	20.97	22.41	22.77	20.78	22.28	21.16	22.61	22.97
	4H	21.24	22.65	21.63	23.00	23.37	21.42	22.84	21.82	23.18	23.56
	6H	21.66	22.97	22.07	23.34	23.73	21.88	23.19	22.29	23.55	23.94
	8H	21.77	23.02	22.20	23.41	23.81	22.01	23.26	22.43	23.65	24.05
	12H	21.83	23.03	22.26	23.41	23.84	22.08	23.28	22.51	23.66	24.09
4H	2H	19.45	20.86	19.85	21.21	21.58	19.62	21.03	20.02	21.38	21.75
	3H	21.49	22.67	21.90	23.07	23.47	21.63	22.82	22.04	23.21	23.61
	4H	22.27	23.34	22.70	23.75	24.19	22.39	23.46	22.82	23.87	24.31
	6H	22.82	23.76	23.27	24.20	24.65	22.96	23.90	23.42	24.34	24.80
	8H	22.96	23.84	23.42	24.28	24.75	23.14	24.02	23.60	24.46	24.92
	12H	23.05	23.84	23.53	24.31	24.78	23.25	24.04	23.73	24.52	24.98
8H	4H	22.58	23.45	23.04	23.90	24.36	22.68	23.56	23.14	24.00	24.47
	6H	23.24	23.96	23.73	24.45	24.93	23.37	24.09	23.86	24.58	25.06
	8H	23.44	24.09	23.95	24.60	25.09	23.60	24.26	24.11	24.76	25.25
	12H	23.58	24.15	24.08	24.64	25.20	23.78	24.36	24.29	24.85	25.41
12H	4H	22.61	23.40	23.09	23.87	24.34	22.71	23.50	23.19	23.98	24.44
	6H	23.28	23.94	23.79	24.44	24.93	23.41	24.06	23.92	24.57	25.05
	8H	23.54	24.11	24.04	24.60	25.16	23.70	24.27	24.20	24.76	25.32