

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: P1584483

Luminaire Tested: 14CZSP-70VHE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584483
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-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

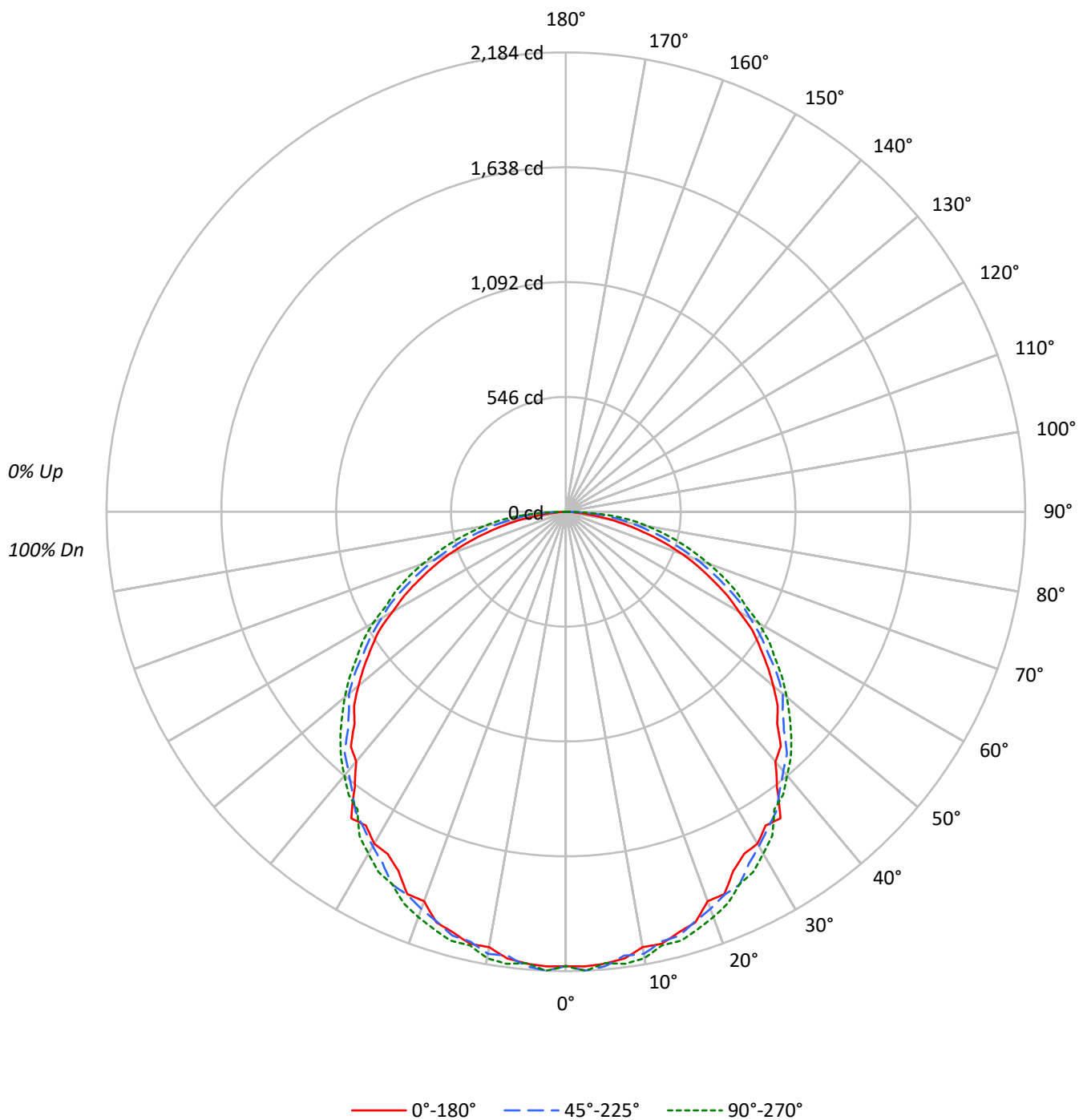
Lumens per Lamp: N/A
Luminaire Lumens: 6476.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7280	7280	7280
5°	7293	7334	7285
10°	7190	7301	7373
15°	7222	7277	7366
20°	7065	7204	7352
25°	7002	7267	7263
30°	7090	7146	7302
35°	7317	7166	7106
40°	6820	7075	7202
45°	6768	6985	7224
50°	6751	7054	7189
55°	6631	6899	7134
60°	6406	6819	7133
65°	6159	6701	7118
70°	5823	6514	7128
75°	5144	6361	7261
80°	4234	6200	7690
85°	2366	6542	8564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	3.2
10°-20°	587.8	9.1
20°-30°	893.3	13.8
30°-40°	1086.3	16.8
40°-50°	1140.2	17.6
50°-60°	1054.6	16.3
60°-70°	830.8	12.8
70°-80°	510.7	7.9
80°-90°	167.7	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°	1685.8	26.0
0°-40°	2772.0	42.8
0°-60°	4966.8	76.7
0°-90°	6476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2156	2118	2168	2149	2154	204
15°	2070	2065	2086	2114	2112	583
25°	1883	1918	1955	1949	1954	875
35°	1779	1715	1742	1769	1728	1078
45°	1420	1450	1466	1508	1516	1104
55°	1129	1164	1174	1204	1214	1009
65°	772	802	840	877	893	765
75°	395	439	489	539	558	421
85°	61	107	169	207	222	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2163.8	2167.2	2182.8	2148.3	2183.9
5°	2156.1	2118.2	2168.3	2149.4	2153.8
7.5°	2141.6	2146.0	2128.2	2139.4	2167.2
10°	2101.5	2129.3	2133.8	2138.2	2154.9
12.5°	2103.7	2085.9	2093.7	2126.0	2111.5
15°	2070.3	2064.8	2085.9	2113.8	2111.5
17.5°	2047.0	2034.7	2042.5	2055.9	2081.5
20°	1970.2	2002.4	2009.1	2050.3	2050.3
22.5°	1967.9	1966.8	1971.3	1992.4	2014.7
25°	1883.3	1917.9	1954.6	1949.0	1953.5
27.5°	1834.4	1873.3	1885.6	1923.4	1930.1
30°	1822.1	1828.8	1836.6	1877.8	1876.7
32.5°	1768.7	1779.8	1785.4	1808.8	1826.6
35°	1778.7	1715.3	1742.0	1768.7	1727.5
37.5°	1648.5	1658.5	1669.6	1689.7	1696.3
40°	1550.5	1576.1	1608.4	1631.8	1637.4
42.5°	1512.7	1550.5	1556.1	1577.2	1582.8
45°	1420.3	1450.4	1465.9	1508.2	1516.0
47.5°	1365.8	1370.2	1398.0	1438.1	1443.7
50°	1287.8	1317.9	1345.7	1363.5	1371.3
52.5°	1208.8	1242.2	1264.5	1281.2	1296.7
55°	1128.7	1164.3	1174.3	1204.4	1214.4
57.5°	1054.1	1065.2	1097.5	1126.4	1144.3
60°	950.6	988.4	1011.8	1065.2	1058.5
62.5°	867.1	892.7	936.1	962.8	959.5
65°	772.5	802.5	840.4	877.1	892.7
67.5°	682.3	722.4	750.2	798.1	809.2
70°	591.0	610.0	661.2	707.9	723.5
72.5°	493.1	523.2	567.7	618.9	637.8
75°	395.1	438.6	488.6	538.7	557.7
77.5°	302.8	340.6	397.4	455.3	474.2
80°	218.2	252.7	319.5	372.9	396.3
82.5°	128.0	174.8	240.4	299.4	317.2
85°	61.2	106.9	169.2	207.0	221.5
87.5°	16.7	47.9	74.6	96.8	100.2
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	18.70	20.37	19.07	20.69	21.00	19.13	20.80	19.50	21.12	21.43
	3H	20.51	22.03	20.89	22.35	22.71	21.22	22.73	21.59	23.06	23.42
	4H	21.15	22.58	21.55	22.92	23.30	22.10	23.53	22.50	23.88	24.25
	6H	21.56	22.89	21.97	23.25	23.64	22.88	24.21	23.29	24.58	24.97
	8H	21.66	22.93	22.08	23.32	23.72	23.22	24.49	23.65	24.88	25.28
	12H	21.70	22.92	22.13	23.30	23.73	23.51	24.73	23.94	25.11	25.54
4H	2H	19.43	20.86	19.83	21.21	21.58	19.77	21.20	20.17	21.55	21.92
	3H	21.46	22.67	21.87	23.06	23.46	22.08	23.29	22.49	23.68	24.08
	4H	22.24	23.33	22.67	23.74	24.18	23.12	24.22	23.55	24.63	25.06
	6H	22.78	23.74	23.23	24.18	24.63	24.07	25.03	24.53	25.47	25.93
	8H	22.92	23.81	23.37	24.26	24.72	24.49	25.39	24.95	25.83	26.30
	12H	22.99	23.80	23.47	24.27	24.74	24.86	25.67	25.34	26.14	26.61
8H	4H	22.67	23.57	23.13	24.01	24.47	23.44	24.34	23.90	24.78	25.25
	6H	23.35	24.10	23.84	24.59	25.06	24.56	25.31	25.05	25.80	26.27
	8H	23.56	24.24	24.07	24.74	25.23	25.10	25.77	25.61	26.28	26.76
	12H	23.70	24.30	24.20	24.79	25.35	25.60	26.20	26.10	26.69	27.25
12H	4H	22.75	23.56	23.23	24.04	24.51	23.47	24.29	23.95	24.76	25.23
	6H	23.48	24.16	23.99	24.66	25.14	24.62	25.30	25.13	25.80	26.29
	8H	23.77	24.36	24.27	24.85	25.41	25.23	25.83	25.74	26.32	26.88