

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: P1584487

Luminaire Tested: 14CZSP-70VHE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584487
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

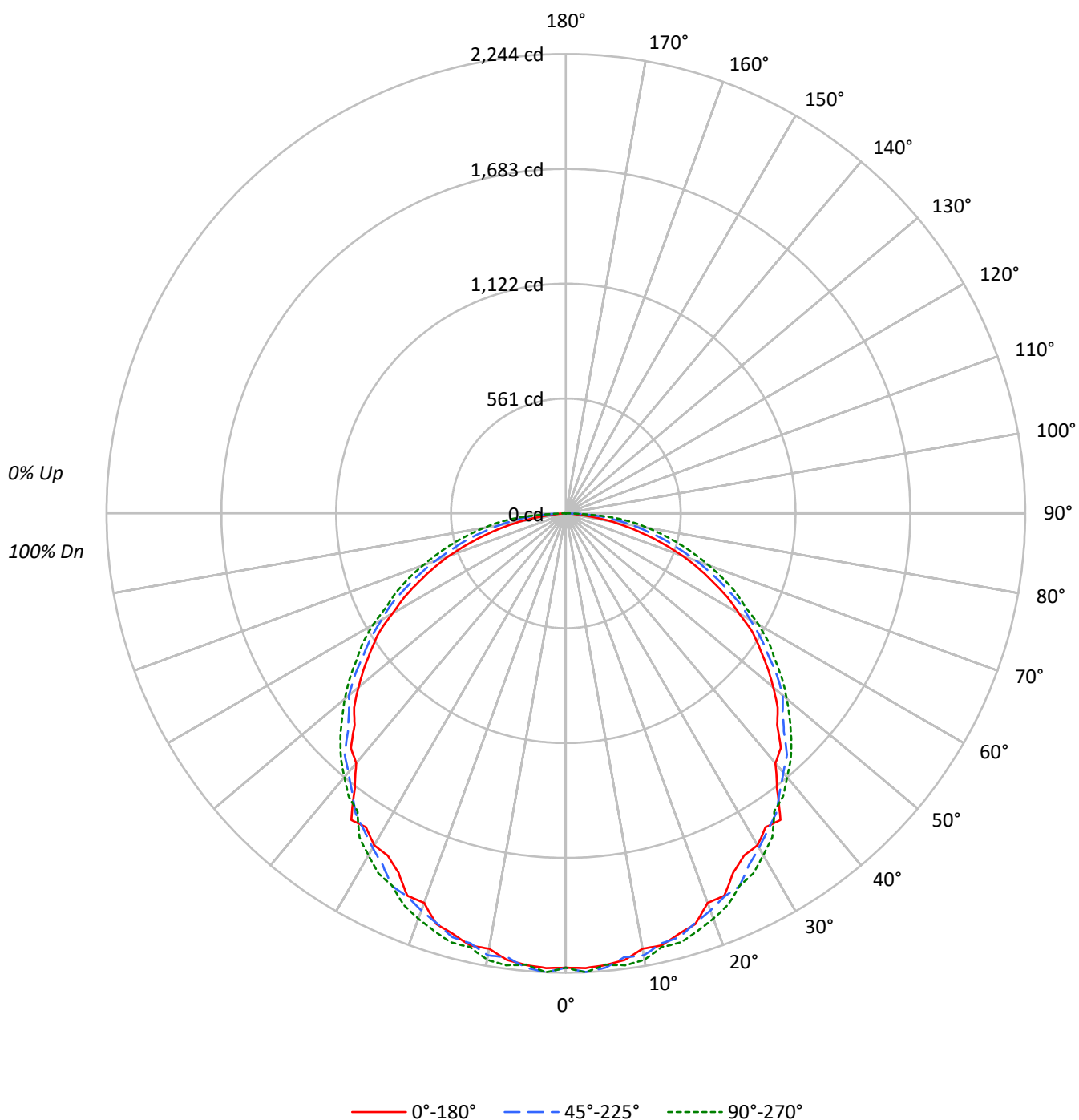
Lumens per Lamp: N/A
Luminaire Lumens: 6654.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7480	7480	7480
5°	7493	7536	7485
10°	7388	7501	7576
15°	7421	7477	7569
20°	7259	7402	7554
25°	7195	7467	7463
30°	7284	7342	7502
35°	7518	7363	7301
40°	7008	7269	7400
45°	6954	7177	7423
50°	6936	7248	7386
55°	6813	7088	7330
60°	6582	7006	7330
65°	6328	6885	7313
70°	5983	6692	7324
75°	5286	6537	7460
80°	4351	6369	7902
85°	2432	6719	8799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	3.2
10°-20°	603.9	9.1
20°-30°	917.8	13.8
30°-40°	1116.1	16.8
40°-50°	1171.6	17.6
50°-60°	1083.6	16.3
60°-70°	853.6	12.8
70°-80°	524.7	7.9
80°-90°	172.3	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°	1732.1	26.0
0°-40°	2848.2	42.8
0°-60°	5103.4	76.7
0°-90°	6654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2215	2176	2228	2208	2213	210
15°	2127	2122	2143	2172	2170	599
25°	1935	1971	2008	2003	2007	899
35°	1828	1762	1790	1817	1775	1107
45°	1459	1490	1506	1550	1558	1134
55°	1160	1196	1207	1238	1248	1037
65°	794	825	864	901	917	786
75°	406	451	502	554	573	432
85°	63	110	174	213	228	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2223.3	2226.7	2242.8	2207.3	2243.9
5°	2215.3	2176.4	2227.9	2208.5	2213.0
7.5°	2200.4	2205.0	2186.7	2198.2	2226.7
10°	2159.3	2187.9	2192.4	2197.0	2214.2
12.5°	2161.6	2143.3	2151.3	2184.4	2169.6
15°	2127.2	2121.5	2143.3	2171.9	2169.6
17.5°	2103.2	2090.7	2098.7	2112.4	2138.7
20°	2024.3	2057.5	2064.3	2106.7	2106.7
22.5°	2022.0	2020.9	2025.5	2047.2	2070.1
25°	1935.1	1970.6	2008.3	2002.6	2007.2
27.5°	1884.8	1924.8	1937.4	1976.3	1983.1
30°	1872.2	1879.1	1887.1	1929.4	1928.2
32.5°	1817.3	1828.7	1834.5	1858.5	1876.8
35°	1827.6	1762.4	1789.9	1817.3	1775.0
37.5°	1693.8	1704.1	1715.5	1736.1	1743.0
40°	1593.1	1619.5	1652.6	1676.6	1682.4
42.5°	1554.3	1593.1	1598.9	1620.6	1626.3
45°	1459.3	1490.2	1506.2	1549.7	1557.7
47.5°	1403.3	1407.9	1436.5	1477.6	1483.4
50°	1323.2	1354.1	1382.7	1401.0	1409.0
52.5°	1242.0	1276.3	1299.2	1316.4	1332.4
55°	1159.7	1196.3	1206.6	1237.5	1247.8
57.5°	1083.1	1094.5	1127.7	1157.4	1175.7
60°	976.7	1015.6	1039.6	1094.5	1087.6
62.5°	890.9	917.2	961.8	989.3	985.9
65°	793.7	824.6	863.5	901.2	917.2
67.5°	701.1	742.2	770.8	820.0	831.5
70°	607.3	626.7	679.3	727.4	743.4
72.5°	506.7	537.5	583.3	635.9	655.3
75°	406.0	450.6	502.1	553.5	573.0
77.5°	311.1	350.0	408.3	467.8	487.2
80°	224.2	259.6	328.2	383.1	407.2
82.5°	131.5	179.6	247.0	307.7	325.9
85°	62.9	109.8	173.8	212.7	227.6
87.5°	17.2	49.2	76.6	99.5	102.9
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	18.80	20.47	19.16	20.78	21.09	19.23	20.90	19.59	21.21	21.53
	3H	20.60	22.12	20.98	22.45	22.80	21.31	22.83	21.69	23.15	23.51
	4H	21.24	22.67	21.64	23.02	23.39	22.19	23.62	22.59	23.97	24.35
	6H	21.66	22.98	22.07	23.35	23.74	22.98	24.31	23.39	24.67	25.06
	8H	21.75	23.02	22.18	23.41	23.81	23.32	24.59	23.74	24.98	25.37
	12H	21.79	23.01	22.22	23.39	23.82	23.60	24.82	24.03	25.20	25.63
4H	2H	19.53	20.96	19.92	21.30	21.68	19.86	21.29	20.26	21.64	22.01
	3H	21.55	22.76	21.96	23.16	23.56	22.18	23.38	22.59	23.78	24.18
	4H	22.33	23.43	22.76	23.84	24.27	23.22	24.31	23.65	24.72	25.16
	6H	22.87	23.83	23.32	24.27	24.72	24.17	25.13	24.62	25.57	26.02
	8H	23.01	23.91	23.47	24.35	24.81	24.59	25.49	25.04	25.93	26.39
	12H	23.08	23.89	23.56	24.37	24.84	24.95	25.76	25.43	26.24	26.71
8H	4H	22.76	23.66	23.22	24.10	24.57	23.54	24.44	24.00	24.88	25.34
	6H	23.44	24.19	23.93	24.68	25.15	24.65	25.40	25.14	25.89	26.36
	8H	23.66	24.33	24.16	24.84	25.32	25.19	25.87	25.70	26.37	26.86
	12H	23.79	24.39	24.30	24.88	25.44	25.69	26.29	26.20	26.78	27.34
12H	4H	22.85	23.66	23.33	24.13	24.60	23.57	24.38	24.05	24.85	25.32
	6H	23.57	24.25	24.08	24.75	25.24	24.71	25.39	25.22	25.90	26.38
	8H	23.86	24.46	24.37	24.95	25.51	25.33	25.93	25.83	26.42	26.97