

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: P1584789

Luminaire Tested: 14CZSP-A-70VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584789
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-A-70VHE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

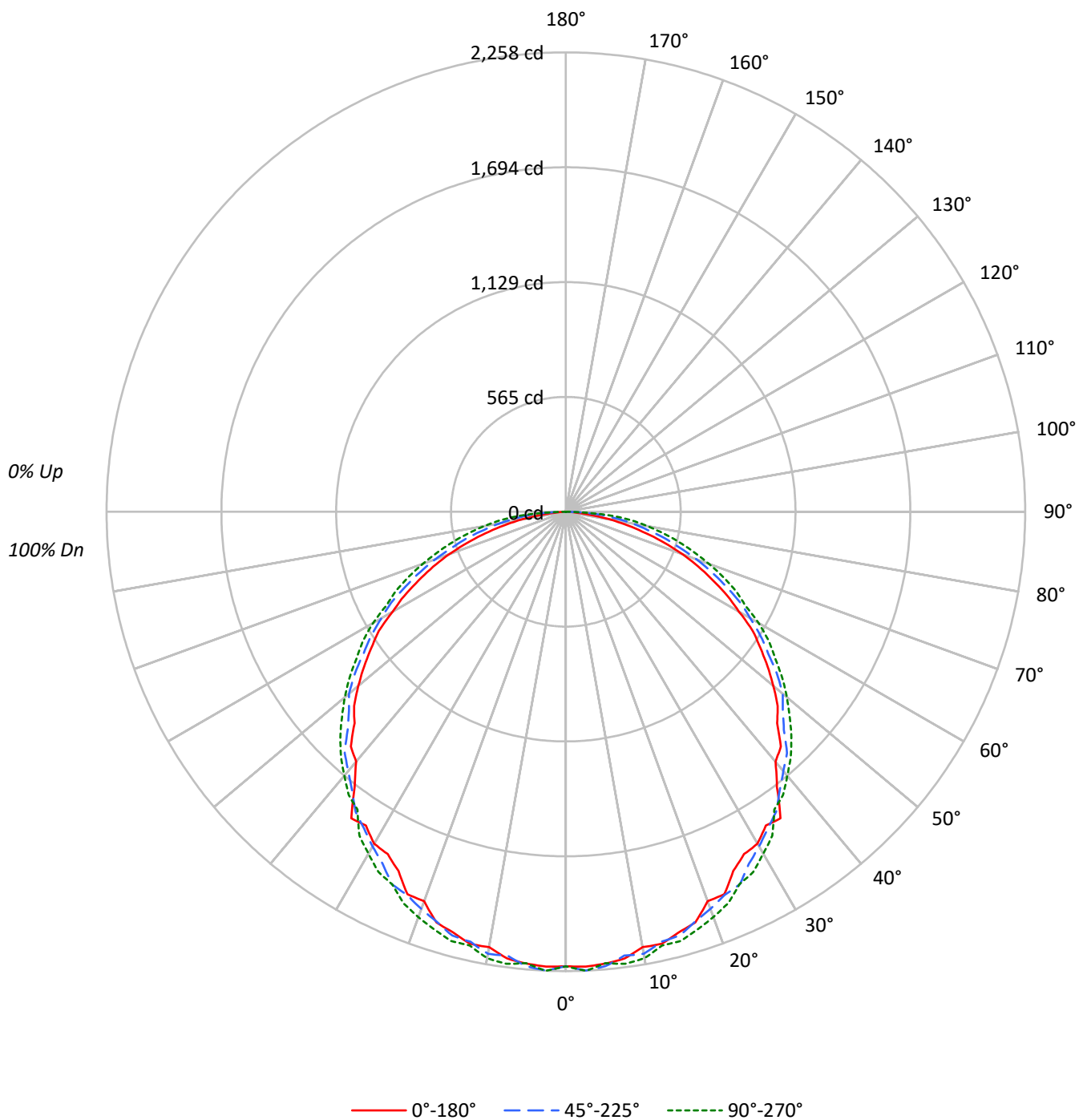
Lumens per Lamp: N/A
Luminaire Lumens: 6697.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7528	7528	7528
5°	7542	7584	7534
10°	7436	7550	7625
15°	7469	7525	7617
20°	7306	7450	7603
25°	7241	7515	7511
30°	7332	7390	7551
35°	7566	7410	7349
40°	7053	7316	7448
45°	6999	7224	7471
50°	6981	7295	7434
55°	6857	7134	7377
60°	6625	7051	7377
65°	6369	6929	7361
70°	6022	6736	7371
75°	5320	6579	7508
80°	4378	6411	7952
85°	2447	6766	8857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8857 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.2
10°-20°	607.8	9.1
20°-30°	923.7	13.8
30°-40°	1123.3	16.8
40°-50°	1179.2	17.6
50°-60°	1090.6	16.3
60°-70°	859.1	12.8
70°-80°	528.1	7.9
80°-90°	173.4	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°	1743.3	26.0
0°-40°	2866.6	42.8
0°-60°	5136.4	76.7
0°-90°	6697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2230	2190	2242	2223	2227	211
15°	2141	2135	2157	2186	2184	603
25°	1948	1983	2021	2016	2020	905
35°	1839	1774	1801	1829	1786	1114
45°	1469	1500	1516	1560	1568	1142
55°	1167	1204	1214	1246	1256	1043
65°	799	830	869	907	923	791
75°	409	454	505	557	577	435
85°	63	110	175	214	229	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2234.2	2234.2	2234.2	2234.2	2234.2
2.5°	2237.7	2241.1	2257.3	2221.6	2258.4
5°	2229.6	2190.5	2242.3	2222.7	2227.3
7.5°	2214.7	2219.3	2200.9	2212.4	2241.1
10°	2173.2	2202.0	2206.6	2211.2	2228.5
12.5°	2175.5	2157.1	2165.2	2198.6	2183.6
15°	2141.0	2135.2	2157.1	2185.9	2183.6
17.5°	2116.8	2104.2	2112.2	2126.0	2152.5
20°	2037.4	2070.8	2077.7	2120.3	2120.3
22.5°	2035.1	2033.9	2038.6	2060.4	2083.4
25°	1947.6	1983.3	2021.3	2015.5	2020.1
27.5°	1897.0	1937.3	1949.9	1989.1	1996.0
30°	1884.3	1891.2	1899.3	1941.9	1940.7
32.5°	1829.1	1840.6	1846.3	1870.5	1888.9
35°	1839.4	1773.8	1801.4	1829.1	1786.5
37.5°	1704.7	1715.1	1726.6	1747.3	1754.2
40°	1603.4	1629.9	1663.3	1687.5	1693.2
42.5°	1564.3	1603.4	1609.2	1631.1	1636.8
45°	1468.8	1499.8	1516.0	1559.7	1567.8
47.5°	1412.4	1417.0	1445.7	1487.2	1492.9
50°	1331.8	1362.9	1391.6	1410.1	1418.1
52.5°	1250.1	1284.6	1307.6	1324.9	1341.0
55°	1167.2	1204.0	1214.4	1245.5	1255.8
57.5°	1090.1	1101.6	1135.0	1164.9	1183.3
60°	983.0	1022.2	1046.3	1101.6	1094.7
62.5°	896.7	923.2	968.1	995.7	992.2
65°	798.8	829.9	869.1	907.0	923.2
67.5°	705.6	747.0	775.8	825.3	836.8
70°	611.2	630.8	683.7	732.1	748.2
72.5°	509.9	541.0	587.0	640.0	659.6
75°	408.6	453.5	505.3	557.1	576.7
77.5°	313.1	352.2	410.9	470.8	490.4
80°	225.6	261.3	330.4	385.6	409.8
82.5°	132.4	180.7	248.6	309.6	328.1
85°	63.3	110.5	175.0	214.1	229.1
87.5°	17.3	49.5	77.1	100.1	103.6
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	20.49	19.18	20.80	21.12	19.25	20.92	19.62	21.23	21.55
	3H	20.63	22.14	21.00	22.47	22.83	21.34	22.85	21.71	23.18	23.54
	4H	21.26	22.69	21.66	23.04	23.42	22.22	23.65	22.61	23.99	24.37
	6H	21.68	23.01	22.09	23.37	23.76	23.00	24.33	23.41	24.69	25.08
	8H	21.78	23.05	22.20	23.44	23.83	23.34	24.61	23.76	25.00	25.40
	12H	21.82	23.03	22.25	23.42	23.84	23.63	24.84	24.06	25.23	25.65
4H	2H	19.55	20.98	19.95	21.33	21.70	19.89	21.32	20.28	21.66	22.04
	3H	21.58	22.78	21.99	23.18	23.58	22.20	23.40	22.61	23.80	24.20
	4H	22.35	23.45	22.78	23.86	24.29	23.24	24.33	23.67	24.74	25.18
	6H	22.89	23.85	23.34	24.29	24.74	24.19	25.15	24.64	25.59	26.04
	8H	23.03	23.93	23.49	24.37	24.84	24.61	25.51	25.07	25.95	26.41
	12H	23.11	23.92	23.58	24.39	24.86	24.98	25.79	25.45	26.26	26.73
8H	4H	22.79	23.69	23.25	24.13	24.59	23.56	24.46	24.02	24.90	25.36
	6H	23.47	24.22	23.96	24.70	25.18	24.68	25.43	25.17	25.91	26.39
	8H	23.68	24.35	24.19	24.86	25.34	25.22	25.89	25.72	26.39	26.88
	12H	23.82	24.41	24.32	24.90	25.46	25.72	26.32	26.22	26.80	27.36
12H	4H	22.87	23.68	23.35	24.15	24.62	23.59	24.40	24.07	24.88	25.34
	6H	23.60	24.27	24.10	24.78	25.26	24.74	25.41	25.24	25.92	26.40
	8H	23.88	24.48	24.39	24.97	25.53	25.35	25.95	25.86	26.44	27.00