

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: P1588711

Luminaire Tested: 24CZSP-A-52HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-52HE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

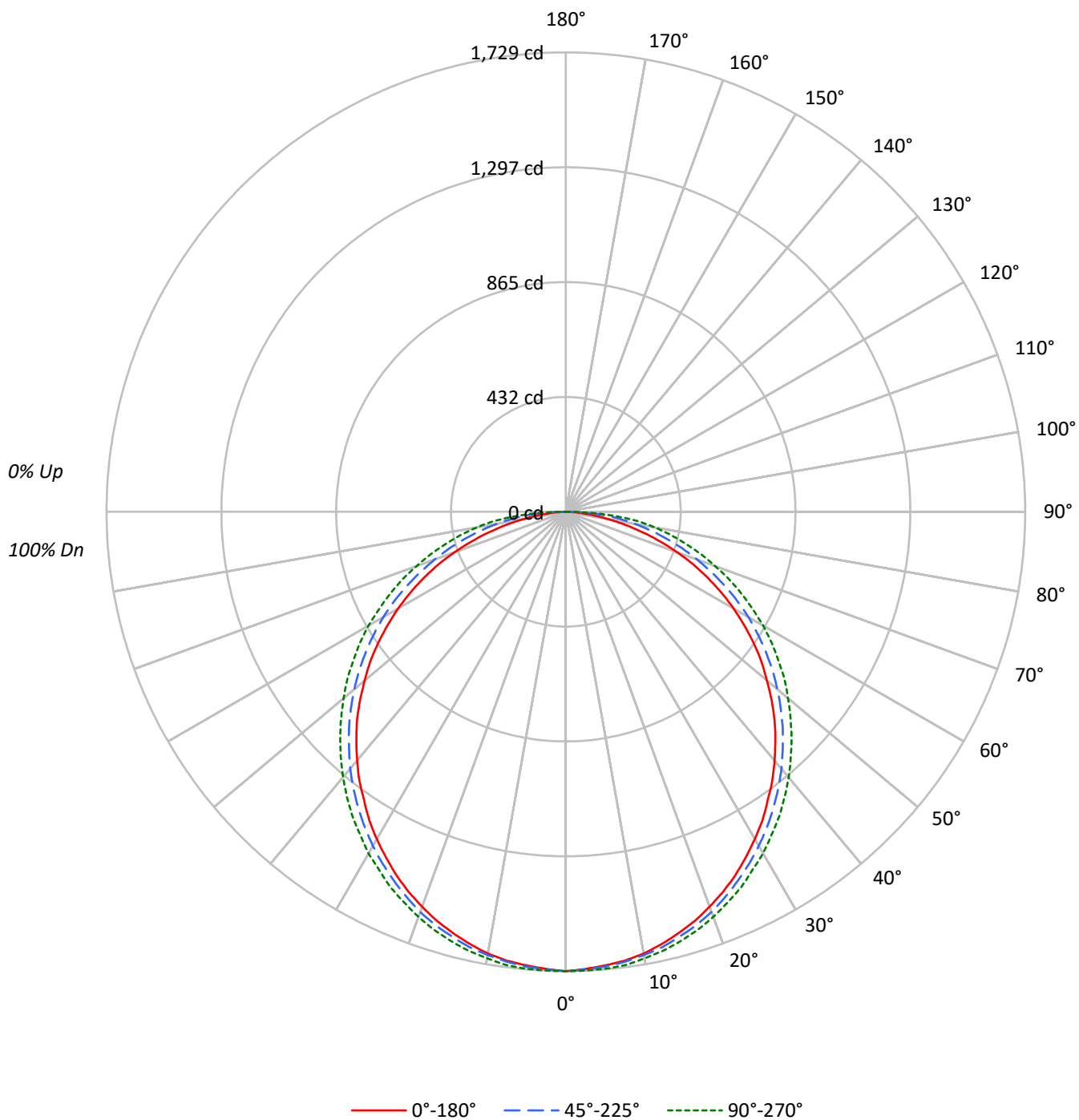
Lumens per Lamp: N/A
Luminaire Lumens: 5130.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	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°	2649	2649	2649
5°	2635	2641	2654
10°	2626	2634	2654
15°	2603	2625	2652
20°	2578	2613	2645
25°	2551	2589	2637
30°	2516	2569	2627
35°	2477	2546	2617
40°	2444	2524	2609
45°	2408	2500	2602
50°	2355	2476	2602
55°	2305	2453	2608
60°	2236	2431	2627
65°	2140	2393	2645
70°	2003	2352	2677
75°	1781	2319	2764
80°	1465	2329	3006
85°	998	2596	3318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.2
10°-20°	468.6	9.1
20°-30°	708.6	13.8
30°-40°	855.1	16.7
40°-50°	894.1	17.4
50°-60°	824.9	16.1
60°-70°	655.9	12.8
70°-80°	414.0	8.1
80°-90°	145.2	2.8
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°	1340.9	26.1
0°-40°	2195.9	42.8
0°-60°	3914.9	76.3
0°-90°	5130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1714	1726	1718	1722	1726	163
15°	1641	1660	1656	1668	1672	463
25°	1509	1532	1532	1552	1560	695
35°	1325	1353	1362	1389	1400	830
45°	1112	1136	1154	1188	1201	856
55°	863	889	919	963	977	771
65°	591	618	660	716	730	584
75°	301	335	392	450	467	319
85°	57	94	148	183	189	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.3	1729.3	1729.3	1729.3	1729.3
2.5°	1722.2	1733.6	1723.7	1729.3	1727.9
5°	1713.7	1726.5	1718.0	1722.2	1726.5
7.5°	1703.8	1718.0	1708.0	1715.1	1720.8
10°	1688.2	1702.4	1693.8	1702.4	1706.6
12.5°	1666.9	1683.9	1678.2	1688.2	1692.4
15°	1641.3	1659.8	1655.5	1668.3	1672.5
17.5°	1614.3	1634.2	1631.4	1645.6	1649.8
20°	1581.7	1604.4	1603.0	1617.2	1622.9
22.5°	1547.6	1570.3	1568.9	1584.5	1591.6
25°	1509.3	1532.0	1532.0	1551.9	1560.4
27.5°	1466.7	1492.2	1493.6	1513.5	1520.6
30°	1422.7	1448.2	1452.5	1473.8	1485.1
32.5°	1377.2	1401.4	1408.5	1432.6	1441.1
35°	1324.7	1353.1	1361.6	1388.6	1399.9
37.5°	1276.4	1302.0	1313.3	1341.7	1353.1
40°	1222.5	1249.4	1262.2	1293.5	1304.8
42.5°	1167.1	1194.1	1208.3	1242.3	1253.7
45°	1111.7	1135.9	1154.3	1188.4	1201.2
47.5°	1050.7	1077.6	1097.5	1134.4	1147.2
50°	988.2	1016.6	1039.3	1079.1	1091.8
52.5°	928.6	954.1	979.7	1023.7	1037.9
55°	863.3	888.8	918.6	962.6	976.8
57.5°	796.5	822.1	856.2	903.0	918.6
60°	729.8	755.3	793.7	842.0	857.6
62.5°	660.2	685.8	728.4	778.1	792.3
65°	590.6	617.6	660.2	715.6	729.8
67.5°	519.7	546.6	592.1	650.3	665.9
70°	447.2	477.1	525.3	583.5	597.7
72.5°	372.0	406.1	460.0	516.8	533.9
75°	301.0	335.1	391.9	450.1	467.1
77.5°	231.4	269.8	326.6	387.6	406.1
80°	166.1	204.5	264.1	323.7	340.8
82.5°	106.5	146.2	205.9	262.7	276.9
85°	56.8	93.7	147.7	183.2	188.8
87.5°	18.5	48.3	66.7	88.0	89.4
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	14.94	16.61	15.31	16.93	17.24	15.66	17.33	16.03	17.65	17.96
	3H	16.73	18.25	17.10	18.57	18.93	17.83	19.35	18.21	19.67	20.03
	4H	17.36	18.79	17.76	19.14	19.51	18.76	20.20	19.16	20.54	20.92
	6H	17.78	19.11	18.19	19.48	19.87	19.62	20.95	20.03	21.32	21.71
	8H	17.89	19.17	18.32	19.56	19.95	20.00	21.27	20.42	21.66	22.06
	12H	17.95	19.17	18.38	19.56	19.98	20.31	21.53	20.74	21.91	22.34
4H	2H	15.71	17.14	16.10	17.49	17.86	16.27	17.70	16.66	18.05	18.42
	3H	17.73	18.94	18.14	19.33	19.73	18.68	19.89	19.09	20.28	20.68
	4H	18.49	19.59	18.92	20.00	20.44	19.78	20.88	20.21	21.29	21.73
	6H	19.04	20.01	19.50	20.45	20.90	20.82	21.79	21.27	22.23	22.68
	8H	19.20	20.11	19.66	20.55	21.01	21.29	22.19	21.74	22.63	23.10
	12H	19.30	20.12	19.78	20.59	21.06	21.68	22.50	22.16	22.97	23.44
8H	4H	18.98	19.88	19.44	20.32	20.79	20.10	21.00	20.56	21.44	21.91
	6H	19.69	20.44	20.18	20.93	21.40	21.32	22.07	21.81	22.56	23.03
	8H	19.93	20.61	20.44	21.11	21.60	21.91	22.59	22.42	23.10	23.58
	12H	20.10	20.70	20.60	21.19	21.75	22.46	23.06	22.96	23.55	24.11
12H	4H	19.08	19.90	19.56	20.37	20.84	20.13	20.95	20.61	21.42	21.89
	6H	19.85	20.53	20.35	21.03	21.52	21.38	22.06	21.89	22.57	23.05
	8H	20.17	20.78	20.68	21.26	21.82	22.06	22.66	22.56	23.15	23.71