

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: P1588270

Luminaire Tested: 24CZSP-42-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-42-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

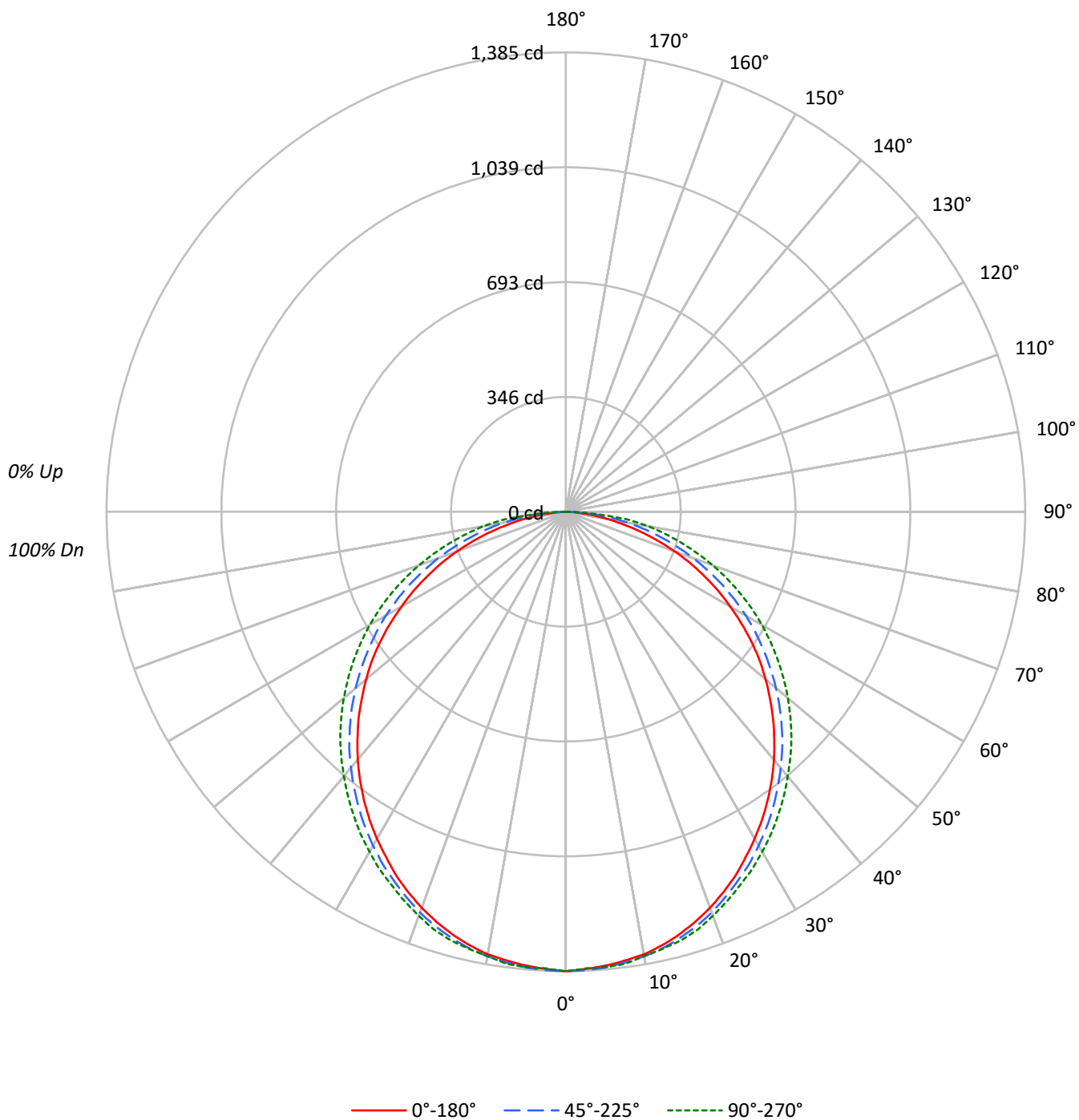
Lumens per Lamp: N/A
Luminaire Lumens: 4044.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2122	2122	2122
5°	2112	2120	2119
10°	2107	2117	2116
15°	2092	2109	2122
20°	2071	2096	2113
25°	2046	2074	2099
30°	2014	2056	2093
35°	1984	2036	2087
40°	1952	2015	2081
45°	1914	1995	2084
50°	1873	1971	2083
55°	1825	1943	2085
60°	1756	1922	2090
65°	1675	1885	2097
70°	1562	1832	2106
75°	1392	1759	2127
80°	1150	1675	2231
85°	749	1513	1949

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.2
10°-20°	375.1	9.3
20°-30°	565.7	14.0
30°-40°	681.4	16.8
40°-50°	711.6	17.6
50°-60°	653.5	16.2
60°-70°	514.7	12.7
70°-80°	315.8	7.8
80°-90°	95.0	2.4
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°	1071.8	26.5
0°-40°	1753.2	43.4
0°-60°	3118.4	77.1
0°-90°	4044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1374	1375	1379	1383	1378	131
15°	1320	1322	1330	1338	1338	372
25°	1210	1213	1227	1242	1242	557
35°	1061	1067	1089	1111	1116	664
45°	884	894	921	953	962	681
55°	683	696	728	768	781	610
65°	462	478	520	564	579	457
75°	235	254	297	344	359	249
85°	43	59	86	109	111	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1379.9	1382.5	1383.4	1384.3	1378.1
5°	1373.6	1375.4	1379.0	1383.4	1378.1
7.5°	1364.8	1366.5	1371.0	1377.2	1374.5
10°	1355.0	1355.9	1361.2	1365.7	1360.3
12.5°	1339.0	1341.7	1347.9	1351.5	1349.7
15°	1319.5	1322.2	1330.2	1338.1	1338.1
17.5°	1296.4	1300.0	1309.8	1320.4	1321.3
20°	1270.7	1273.4	1285.8	1296.4	1296.4
22.5°	1241.4	1245.0	1257.4	1268.9	1270.7
25°	1210.4	1213.0	1227.2	1242.3	1242.3
27.5°	1174.0	1179.3	1197.1	1212.1	1215.7
30°	1138.5	1142.9	1162.4	1181.1	1183.7
32.5°	1101.2	1106.5	1127.0	1147.4	1151.8
35°	1061.3	1066.6	1088.8	1111.0	1116.3
37.5°	1019.6	1025.8	1048.9	1074.6	1079.9
40°	976.1	983.2	1008.0	1035.6	1040.9
42.5°	930.0	939.7	966.3	994.7	1002.7
45°	883.8	893.6	921.1	953.0	961.9
47.5°	835.0	846.5	874.9	908.7	918.4
50°	786.2	797.7	827.0	863.4	874.1
52.5°	736.5	748.0	778.2	816.4	827.9
55°	683.3	695.7	727.6	768.5	780.9
57.5°	628.3	644.2	677.9	719.7	732.1
60°	573.2	589.2	627.4	668.2	682.4
62.5°	519.1	534.2	573.2	616.7	631.8
65°	462.3	478.3	520.0	563.5	578.6
67.5°	406.4	422.4	464.1	509.3	525.3
70°	348.7	366.5	409.1	454.3	470.3
72.5°	291.1	309.7	353.2	399.3	414.4
75°	235.2	253.8	297.3	344.3	359.4
77.5°	180.1	200.5	243.1	291.1	305.3
80°	130.4	150.0	189.9	236.9	252.9
82.5°	83.4	100.3	140.2	184.6	196.1
85°	42.6	58.6	86.1	109.1	110.9
87.5°	13.3	18.6	28.4	42.6	43.5
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	14.09	15.75	14.46	16.07	16.38	14.92	16.58	15.29	16.90	17.21
	3H	15.85	17.35	16.22	17.68	18.04	17.04	18.55	17.41	18.87	19.23
	4H	16.47	17.89	16.86	18.24	18.61	17.93	19.35	18.32	19.70	20.07
	6H	16.88	18.20	17.29	18.56	18.95	18.71	20.03	19.12	20.39	20.78
	8H	16.98	18.25	17.41	18.64	19.03	19.03	20.29	19.45	20.68	21.08
	12H	17.04	18.25	17.46	18.63	19.06	19.24	20.45	19.67	20.83	21.26
4H	2H	14.86	16.29	15.26	16.63	17.01	15.51	16.93	15.91	17.28	17.65
	3H	16.84	18.04	17.25	18.43	18.83	17.86	19.06	18.27	19.46	19.86
	4H	17.58	18.66	18.01	19.08	19.51	18.92	20.00	19.35	20.42	20.85
	6H	18.11	19.06	18.56	19.50	19.95	19.87	20.82	20.32	21.26	21.71
	8H	18.25	19.14	18.71	19.59	20.05	20.27	21.16	20.73	21.60	22.06
	12H	18.34	19.14	18.81	19.61	20.08	20.54	21.35	21.02	21.82	22.29
8H	4H	18.04	18.93	18.50	19.37	19.83	19.21	20.10	19.66	20.54	21.00
	6H	18.70	19.44	19.19	19.93	20.40	20.32	21.06	20.81	21.55	22.02
	8H	18.91	19.58	19.42	20.08	20.57	20.83	21.50	21.34	22.00	22.49
	12H	19.05	19.64	19.55	20.13	20.69	21.21	21.81	21.72	22.30	22.85
12H	4H	18.13	18.93	18.60	19.40	19.87	19.23	20.03	19.71	20.51	20.98
	6H	18.83	19.50	19.34	20.00	20.49	20.36	21.03	20.87	21.54	22.02
	8H	19.11	19.70	19.61	20.19	20.75	20.94	21.53	21.45	22.02	22.58