

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: P1588601

Luminaire Tested: 24CZSP-A-42-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-42-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

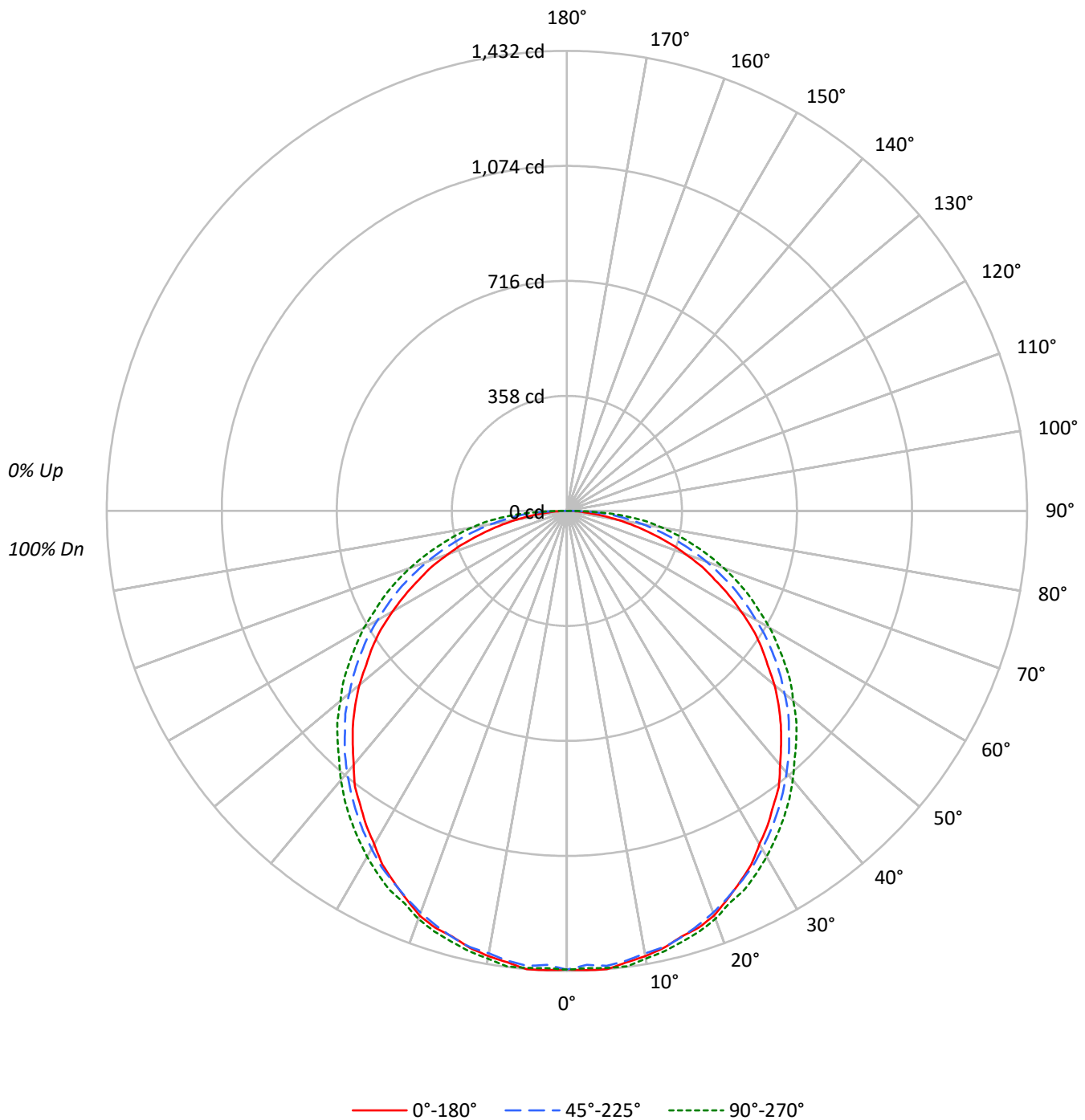
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4358.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2187	2187	2187
5°	2202	2186	2195
10°	2188	2175	2201
15°	2176	2180	2201
20°	2184	2169	2203
25°	2154	2157	2203
30°	2119	2149	2198
35°	2094	2137	2193
40°	2064	2126	2187
45°	2039	2116	2186
50°	2009	2106	2191
55°	1973	2099	2210
60°	1918	2085	2235
65°	1842	2084	2269
70°	1757	2071	2323
75°	1618	2075	2409
80°	1417	2118	2651
85°	1083	2439	3174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.1
10°-20°	389.7	8.9
20°-30°	592.0	13.6
30°-40°	717.1	16.5
40°-50°	754.4	17.3
50°-60°	701.4	16.1
60°-70°	564.8	13.0
70°-80°	365.9	8.4
80°-90°	137.2	3.1
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°	1117.2	25.6
0°-40°	1834.3	42.1
0°-60°	3290.1	75.5
0°-90°	4358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1432	1430	1422	1430	1428	136
15°	1372	1378	1375	1391	1388	389
25°	1274	1273	1276	1298	1304	587
35°	1120	1128	1143	1163	1173	702
45°	941	954	977	998	1009	726
55°	739	758	786	817	828	659
65°	508	531	575	610	626	505
75°	273	301	351	391	407	291
85°	62	91	139	173	181	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.8	1427.8	1427.8	1427.8	1427.8
2.5°	1430.9	1430.9	1414.2	1432.0	1424.6
5°	1432.0	1429.9	1421.5	1429.9	1427.8
7.5°	1417.3	1419.4	1412.1	1422.6	1429.9
10°	1406.9	1409.0	1398.6	1415.3	1415.3
12.5°	1393.3	1395.4	1391.2	1406.9	1403.8
15°	1372.5	1377.7	1374.6	1391.2	1388.1
17.5°	1361.0	1356.8	1353.7	1366.2	1372.5
20°	1340.1	1330.7	1330.7	1347.4	1351.6
22.5°	1306.7	1303.6	1304.6	1325.5	1321.3
25°	1274.4	1273.3	1276.4	1298.4	1303.6
27.5°	1242.0	1239.9	1249.3	1270.2	1274.4
30°	1198.2	1202.3	1214.9	1237.8	1243.0
32.5°	1161.6	1168.9	1180.4	1202.3	1208.6
35°	1119.9	1128.2	1142.8	1162.7	1173.1
37.5°	1083.4	1088.6	1104.2	1123.0	1135.5
40°	1032.2	1045.8	1063.5	1090.7	1093.8
42.5°	986.3	999.9	1022.8	1052.0	1048.9
45°	941.4	953.9	976.9	997.8	1009.3
47.5°	893.4	904.9	935.2	960.2	968.6
50°	843.3	857.9	884.0	910.1	919.5
52.5°	786.9	802.6	836.0	864.2	877.8
55°	738.9	757.7	785.9	817.2	827.7
57.5°	685.7	701.4	735.8	767.1	777.6
60°	626.2	645.0	680.5	713.9	729.5
62.5°	568.8	589.7	627.3	661.7	674.2
65°	508.3	531.2	575.1	609.5	626.2
67.5°	456.1	474.9	517.7	556.3	574.0
70°	392.4	417.5	462.4	505.2	518.7
72.5°	336.1	358.0	405.0	447.7	464.4
75°	273.4	300.6	350.7	391.4	407.0
77.5°	216.0	244.2	294.3	337.1	354.9
80°	160.7	187.9	240.1	283.9	300.6
82.5°	108.5	135.7	187.9	230.7	249.4
85°	61.6	90.8	138.8	173.3	180.6
87.5°	27.1	52.2	78.3	93.9	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	14.40	16.08	14.77	16.40	16.71	15.08	16.76	15.44	17.07	17.39
	3H	16.26	17.79	16.63	18.11	18.47	17.30	18.82	17.67	19.15	19.51
	4H	16.94	18.39	17.34	18.73	19.11	18.26	19.70	18.66	20.05	20.42
	6H	17.44	18.78	17.85	19.14	19.53	19.15	20.49	19.56	20.86	21.25
	8H	17.58	18.87	18.01	19.26	19.65	19.55	20.84	19.98	21.23	21.62
	12H	17.67	18.90	18.10	19.29	19.71	19.91	21.15	20.34	21.53	21.96
4H	2H	15.20	16.64	15.59	16.99	17.36	15.72	17.16	16.11	17.51	17.88
	3H	17.28	18.51	17.69	18.90	19.30	18.18	19.40	18.58	19.79	20.19
	4H	18.10	19.21	18.53	19.63	20.06	19.30	20.41	19.73	20.83	21.26
	6H	18.73	19.70	19.18	20.14	20.60	20.37	21.35	20.83	21.79	22.24
	8H	18.93	19.84	19.38	20.28	20.75	20.87	21.78	21.32	22.22	22.68
	12H	19.06	19.89	19.54	20.36	20.83	21.32	22.14	21.80	22.62	23.09
8H	4H	18.61	19.53	19.07	19.97	20.43	19.65	20.56	20.10	21.00	21.47
	6H	19.40	20.16	19.89	20.65	21.12	20.90	21.66	21.39	22.15	22.62
	8H	19.68	20.37	20.19	20.87	21.36	21.52	22.21	22.03	22.71	23.20
	12H	19.90	20.51	20.40	21.00	21.56	22.13	22.74	22.64	23.23	23.79
12H	4H	18.72	19.55	19.20	20.02	20.49	19.69	20.51	20.16	20.99	21.45
	6H	19.56	20.26	20.07	20.76	21.24	20.97	21.66	21.48	22.17	22.65
	8H	19.93	20.55	20.44	21.04	21.59	21.68	22.29	22.18	22.78	23.34