

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: P1589743

Luminaire Tested: 24CZSP-SB-42-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-42-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

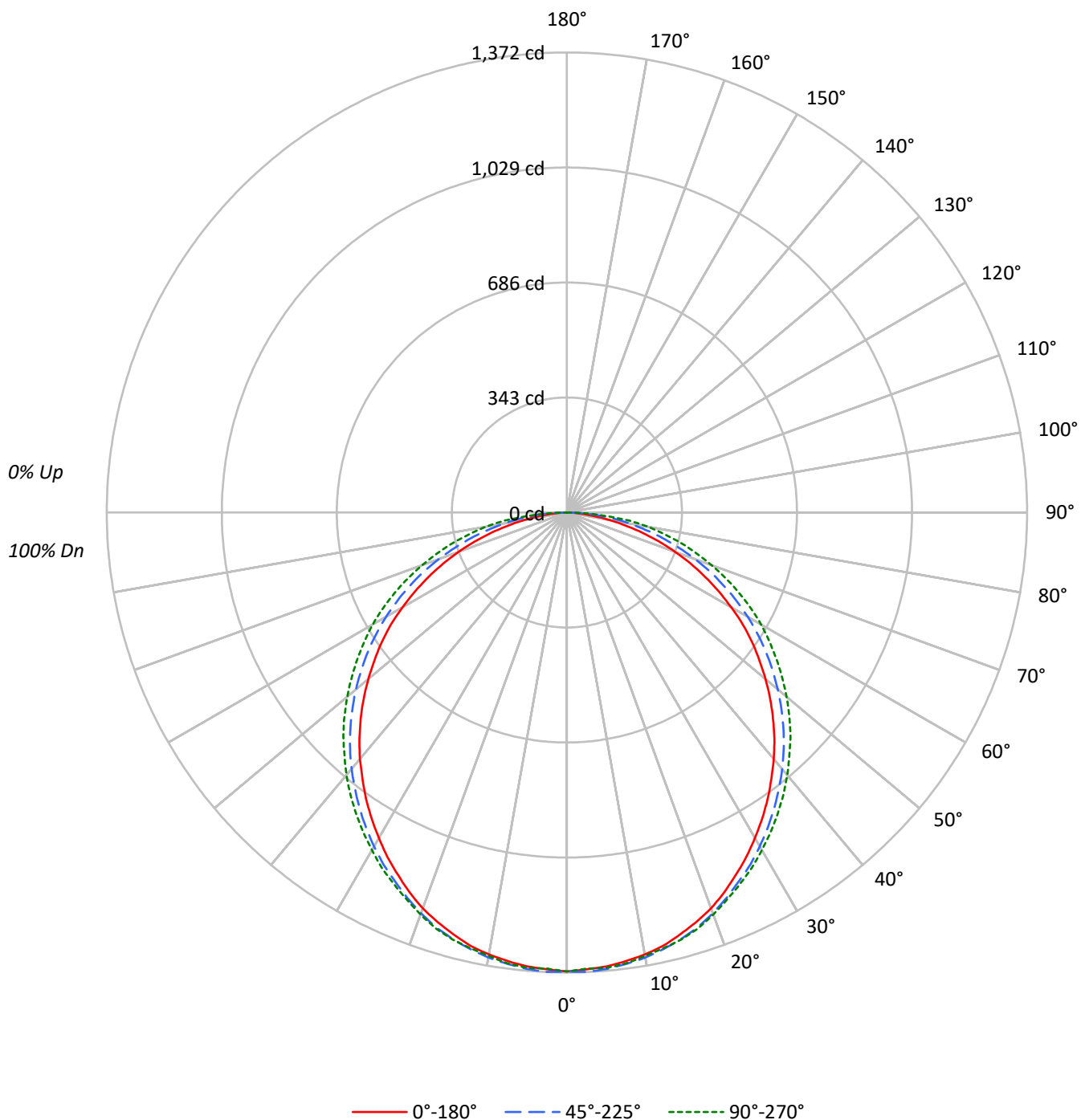
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	68		
3	89	79	70	63	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°	2097	2097	2097
5°	2089	2101	2096
10°	2082	2096	2088
15°	2066	2088	2090
20°	2048	2073	2080
25°	2015	2050	2065
30°	1983	2034	2056
35°	1951	2014	2049
40°	1919	1997	2044
45°	1883	1978	2042
50°	1841	1956	2037
55°	1800	1935	2037
60°	1733	1906	2049
65°	1652	1869	2050
70°	1541	1818	2056
75°	1371	1751	2091
80°	1126	1678	2171
85°	743	1575	1961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	3.2
10°-20°	370.7	9.3
20°-30°	558.7	14.0
30°-40°	672.8	16.8
40°-50°	702.9	17.6
50°-60°	645.7	16.2
60°-70°	508.5	12.7
70°-80°	311.8	7.8
80°-90°	94.5	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°	1058.8	26.5
0°-40°	1731.6	43.3
0°-60°	3080.2	77.1
0°-90°	3995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1359	1361	1366	1365	1363	129
15°	1303	1308	1316	1322	1318	368
25°	1192	1200	1213	1226	1222	550
35°	1043	1057	1077	1097	1096	653
45°	869	888	913	938	943	670
55°	674	693	725	756	763	601
65°	456	479	516	550	566	451
75°	232	259	296	332	353	246
85°	42	63	90	100	112	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.9	1368.9	1368.9	1368.9	1368.9
2.5°	1363.9	1367.2	1371.5	1364.7	1361.3
5°	1358.8	1361.3	1366.4	1364.7	1363.0
7.5°	1349.5	1351.2	1357.9	1357.9	1356.2
10°	1338.5	1341.9	1347.8	1346.9	1342.7
12.5°	1324.1	1326.6	1333.4	1333.4	1330.9
15°	1303.0	1308.0	1316.5	1321.6	1318.2
17.5°	1281.0	1286.1	1297.1	1302.1	1300.4
20°	1256.5	1260.7	1271.7	1279.3	1275.9
22.5°	1226.0	1231.1	1243.8	1252.2	1248.9
25°	1192.2	1199.8	1213.3	1226.0	1221.8
27.5°	1158.4	1166.8	1183.8	1196.4	1194.7
30°	1121.2	1132.2	1149.9	1166.0	1162.6
32.5°	1083.1	1095.8	1114.4	1131.3	1130.5
35°	1043.4	1056.9	1077.2	1096.7	1095.8
37.5°	1001.1	1017.2	1038.3	1059.5	1060.3
40°	959.7	974.9	998.6	1021.4	1022.3
42.5°	915.7	931.8	957.1	980.8	981.7
45°	869.2	887.8	913.2	938.5	942.8
47.5°	821.9	841.3	867.5	894.6	899.7
50°	772.8	793.1	821.0	849.8	854.8
52.5°	722.9	744.1	772.8	801.6	809.2
55°	673.9	693.3	724.6	755.9	762.7
57.5°	622.3	640.1	673.9	706.9	715.3
60°	565.7	587.6	622.3	655.3	668.8
62.5°	510.7	534.4	569.9	602.9	618.1
65°	455.7	479.4	515.8	550.4	565.7
67.5°	399.9	424.5	463.4	496.3	513.2
70°	344.1	368.7	405.9	441.4	459.1
72.5°	288.3	314.5	350.9	387.3	405.0
75°	231.7	258.7	295.9	331.5	353.4
77.5°	178.4	204.6	241.8	278.2	296.8
80°	127.7	153.9	190.2	226.6	246.1
82.5°	81.2	105.7	141.2	171.6	189.4
85°	42.3	62.6	89.6	99.8	111.6
87.5°	12.7	24.5	34.7	38.9	48.2
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	14.09	15.75	14.45	16.06	16.38	14.83	16.49	15.20	16.81	17.12
	3H	15.85	17.36	16.22	17.68	18.04	16.93	18.44	17.30	18.76	19.12
	4H	16.47	17.90	16.87	18.24	18.62	17.81	19.23	18.21	19.58	19.96
	6H	16.89	18.21	17.30	18.57	18.96	18.58	19.90	18.99	20.26	20.65
	8H	16.99	18.25	17.42	18.64	19.04	18.89	20.15	19.31	20.54	20.94
	12H	17.04	18.25	17.47	18.64	19.06	19.10	20.31	19.53	20.70	21.12
4H	2H	14.86	16.28	15.25	16.63	17.00	15.44	16.86	15.83	17.21	17.58
	3H	16.85	18.05	17.26	18.44	18.84	17.76	18.96	18.17	19.36	19.76
	4H	17.60	18.69	18.03	19.10	19.54	18.80	19.89	19.23	20.30	20.73
	6H	18.14	19.09	18.59	19.53	19.99	19.73	20.68	20.18	21.12	21.58
	8H	18.29	19.18	18.75	19.62	20.08	20.11	21.01	20.57	21.45	21.91
	12H	18.37	19.18	18.85	19.65	20.12	20.39	21.19	20.87	21.67	22.14
8H	4H	18.06	18.95	18.51	19.39	19.85	19.10	19.99	19.56	20.43	20.90
	6H	18.73	19.48	19.22	19.96	20.44	20.18	20.93	20.67	21.41	21.89
	8H	18.95	19.62	19.46	20.13	20.61	20.67	21.34	21.18	21.84	22.33
	12H	19.10	19.69	19.61	20.18	20.74	21.05	21.64	21.55	22.13	22.69
12H	4H	18.14	18.94	18.62	19.42	19.89	19.13	19.93	19.61	20.40	20.87
	6H	18.86	19.53	19.37	20.04	20.52	20.24	20.91	20.74	21.41	21.89
	8H	19.15	19.74	19.66	20.23	20.79	20.79	21.38	21.29	21.87	22.43