

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: P1588252

Luminaire Tested: 24CZSP-42-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588252
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-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

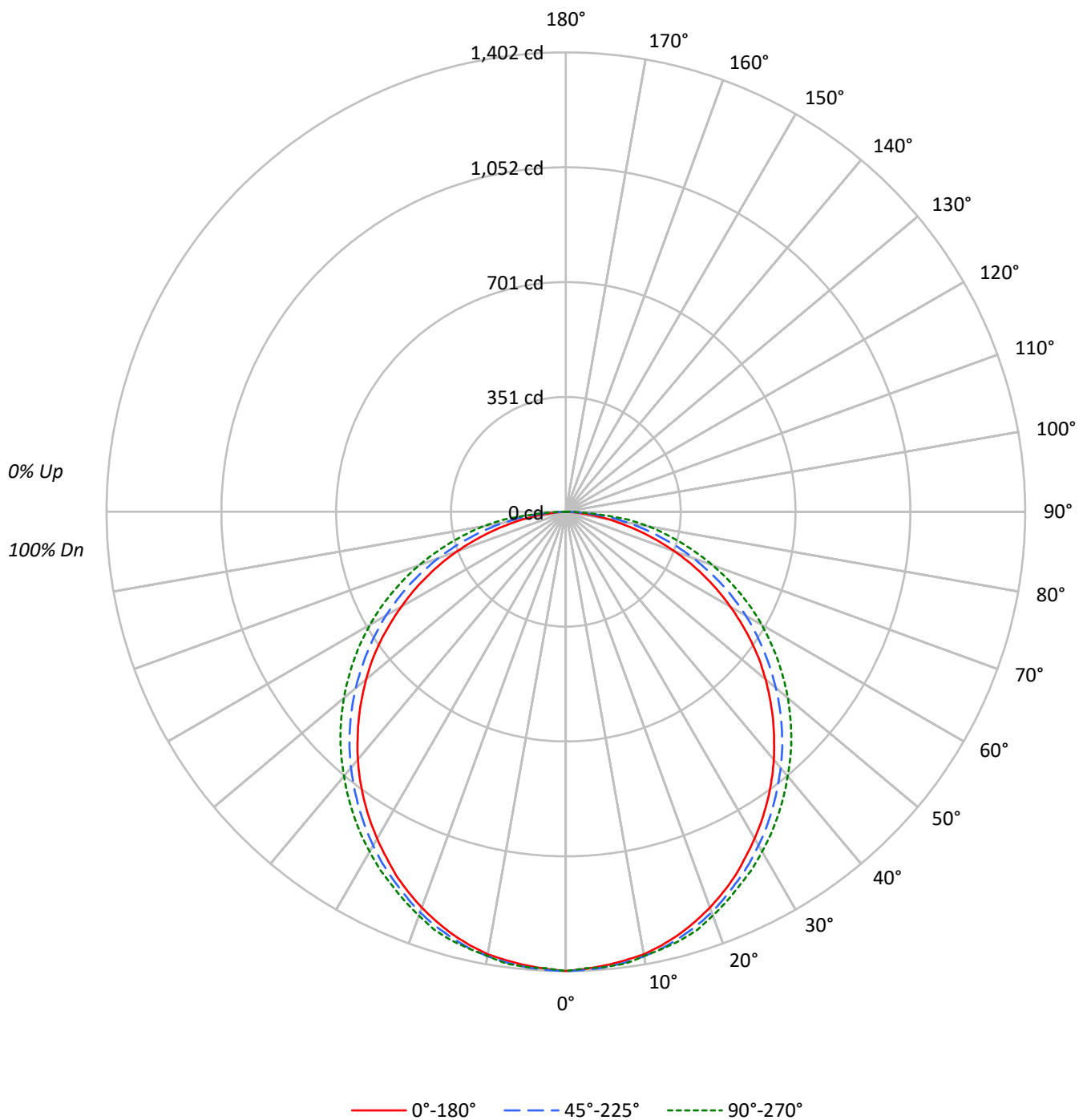
Lumens per Lamp: N/A
Luminaire Lumens: 4092.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	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°	2147	2147	2147
5°	2137	2145	2144
10°	2132	2142	2141
15°	2117	2134	2147
20°	2096	2121	2138
25°	2070	2099	2124
30°	2037	2080	2118
35°	2008	2060	2112
40°	1975	2039	2106
45°	1937	2019	2108
50°	1896	1994	2107
55°	1846	1966	2110
60°	1777	1945	2115
65°	1695	1907	2122
70°	1580	1854	2131
75°	1408	1780	2152
80°	1164	1695	2257
85°	757	1531	1972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	3.2
10°-20°	379.6	9.3
20°-30°	572.4	14.0
30°-40°	689.5	16.8
40°-50°	720.1	17.6
50°-60°	661.3	16.2
60°-70°	520.9	12.7
70°-80°	319.5	7.8
80°-90°	96.2	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°	1084.6	26.5
0°-40°	1774.1	43.4
0°-60°	3155.4	77.1
0°-90°	4092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1390	1392	1395	1400	1394	132
15°	1335	1338	1346	1354	1354	377
25°	1225	1227	1242	1257	1257	564
35°	1074	1079	1102	1124	1130	672
45°	894	904	932	964	973	690
55°	691	704	736	778	790	617
65°	468	484	526	570	585	463
75°	238	257	301	348	364	252
85°	43	59	87	110	112	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.6	1401.6	1401.6	1401.6	1401.6
2.5°	1396.2	1398.9	1399.8	1400.7	1394.4
5°	1389.9	1391.7	1395.3	1399.8	1394.4
7.5°	1381.0	1382.8	1387.3	1393.5	1390.8
10°	1371.1	1372.0	1377.4	1381.9	1376.5
12.5°	1354.9	1357.6	1363.9	1367.5	1365.7
15°	1335.2	1337.9	1345.9	1354.0	1354.0
17.5°	1311.8	1315.4	1325.3	1336.1	1337.0
20°	1285.8	1288.5	1301.1	1311.8	1311.8
22.5°	1256.2	1259.8	1272.3	1284.0	1285.8
25°	1224.7	1227.4	1241.8	1257.1	1257.1
27.5°	1187.9	1193.3	1211.3	1226.5	1230.1
30°	1152.0	1156.5	1176.2	1195.1	1197.8
32.5°	1114.3	1119.7	1140.3	1161.0	1165.5
35°	1073.9	1079.3	1101.7	1124.2	1129.6
37.5°	1031.7	1038.0	1061.3	1087.4	1092.7
40°	987.7	994.9	1020.0	1047.8	1053.2
42.5°	941.0	950.9	977.8	1006.5	1014.6
45°	894.3	904.2	932.0	964.3	973.3
47.5°	844.9	856.6	885.3	919.4	929.3
50°	795.5	807.2	836.8	873.7	884.4
52.5°	745.3	756.9	787.5	826.1	837.7
55°	691.4	704.0	736.3	777.6	790.2
57.5°	635.7	651.9	686.0	728.2	740.8
60°	580.0	596.2	634.8	676.1	690.5
62.5°	525.3	540.5	580.0	624.0	639.3
65°	467.8	484.0	526.2	570.2	585.4
67.5°	411.2	427.4	469.6	515.4	531.6
70°	352.9	370.8	413.9	459.7	475.9
72.5°	294.5	313.4	357.4	404.1	419.3
75°	237.9	256.8	300.8	348.4	363.6
77.5°	182.3	202.9	246.0	294.5	308.9
80°	132.0	151.7	192.2	239.7	255.9
82.5°	84.4	101.5	141.9	186.8	198.4
85°	43.1	59.3	87.1	110.4	112.2
87.5°	13.5	18.9	28.7	43.1	44.0
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	14.13	15.79	14.50	16.11	16.42	14.96	16.62	15.33	16.94	17.25
	3H	15.89	17.40	16.26	17.72	18.08	17.08	18.59	17.46	18.91	19.27
	4H	16.51	17.93	16.90	18.28	18.65	17.97	19.39	18.37	19.74	20.11
	6H	16.92	18.24	17.33	18.60	18.99	18.75	20.07	19.16	20.43	20.82
	8H	17.03	18.29	17.45	18.68	19.07	19.07	20.33	19.49	20.72	21.12
	12H	17.08	18.29	17.51	18.67	19.10	19.28	20.49	19.71	20.87	21.30
4H	2H	14.90	16.33	15.30	16.67	17.05	15.55	16.97	15.95	17.32	17.69
	3H	16.88	18.08	17.29	18.48	18.88	17.91	19.10	18.31	19.50	19.90
	4H	17.62	18.70	18.05	19.12	19.55	18.96	20.04	19.39	20.46	20.89
	6H	18.15	19.10	18.60	19.54	19.99	19.91	20.86	20.36	21.30	21.76
	8H	18.29	19.18	18.75	19.63	20.09	20.31	21.20	20.77	21.64	22.10
	12H	18.38	19.18	18.86	19.65	20.12	20.58	21.39	21.06	21.86	22.33
8H	4H	18.08	18.97	18.54	19.41	19.87	19.25	20.14	19.71	20.58	21.04
	6H	18.74	19.48	19.23	19.97	20.44	20.36	21.10	20.85	21.59	22.06
	8H	18.95	19.62	19.46	20.12	20.61	20.87	21.54	21.38	22.04	22.53
	12H	19.09	19.68	19.59	20.17	20.73	21.26	21.85	21.76	22.34	22.90
12H	4H	18.17	18.97	18.65	19.44	19.91	19.27	20.07	19.75	20.55	21.02
	6H	18.87	19.54	19.38	20.04	20.53	20.41	21.08	20.91	21.58	22.06
	8H	19.15	19.74	19.65	20.23	20.79	20.98	21.58	21.49	22.07	22.62