

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: P1589733

Luminaire Tested: 24CZSP-SB-42-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589733
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

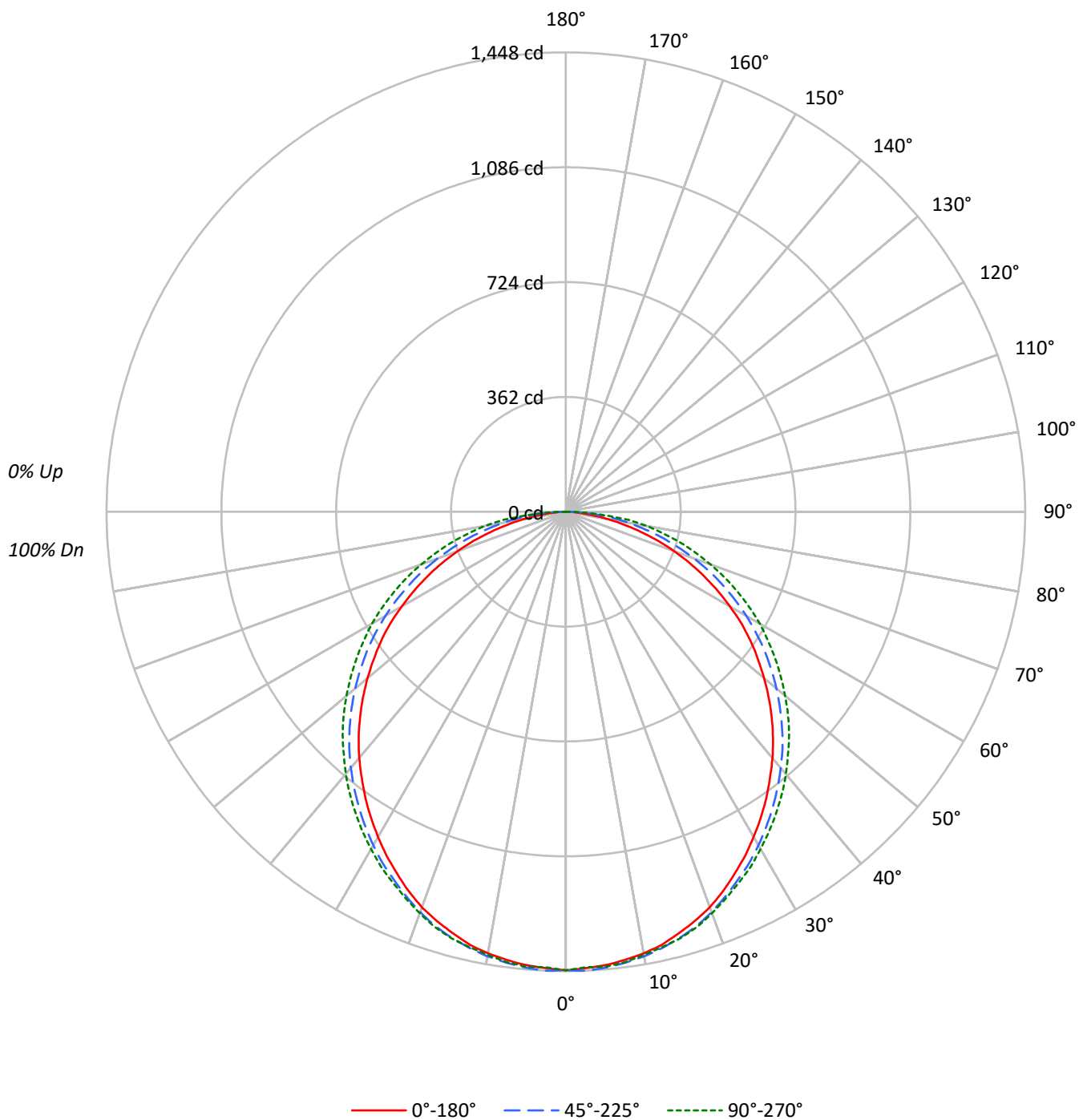
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4218.0 lumens
Efficiency: N/A
Efficacy: 147.0 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			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	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°	2214	2214	2214
5°	2206	2218	2213
10°	2198	2213	2205
15°	2181	2204	2207
20°	2162	2188	2196
25°	2127	2165	2180
30°	2094	2147	2171
35°	2060	2126	2163
40°	2026	2108	2158
45°	1988	2089	2156
50°	1944	2065	2151
55°	1900	2043	2150
60°	1829	2013	2163
65°	1744	1974	2164
70°	1627	1919	2171
75°	1447	1849	2209
80°	1189	1772	2292
85°	784	1662	2070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2347 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.2
10°-20°	391.3	9.3
20°-30°	589.8	14.0
30°-40°	710.3	16.8
40°-50°	742.1	17.6
50°-60°	681.8	16.2
60°-70°	536.9	12.7
70°-80°	329.2	7.8
80°-90°	99.8	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°	1117.9	26.5
0°-40°	1828.2	43.3
0°-60°	3252.1	77.1
0°-90°	4218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1435	1437	1443	1441	1439	136
15°	1376	1381	1390	1395	1392	388
25°	1259	1267	1281	1294	1290	580
35°	1102	1116	1137	1158	1157	689
45°	918	937	964	991	995	708
55°	712	732	765	798	805	635
65°	481	506	545	581	597	476
75°	245	273	312	350	373	260
85°	45	66	95	105	118	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.3	1445.3	1445.3	1445.3	1445.3
2.5°	1440.0	1443.6	1448.0	1440.9	1437.3
5°	1434.6	1437.3	1442.7	1440.9	1439.1
7.5°	1424.8	1426.6	1433.7	1433.7	1431.9
10°	1413.2	1416.8	1423.0	1422.1	1417.7
12.5°	1398.0	1400.7	1407.8	1407.8	1405.2
15°	1375.7	1381.1	1390.0	1395.3	1391.8
17.5°	1352.5	1357.9	1369.5	1374.8	1373.0
20°	1326.6	1331.1	1342.7	1350.7	1347.1
22.5°	1294.5	1299.8	1313.2	1322.1	1318.6
25°	1258.8	1266.8	1281.1	1294.5	1290.0
27.5°	1223.0	1232.0	1249.8	1263.2	1261.4
30°	1183.8	1195.4	1214.1	1231.1	1227.5
32.5°	1143.6	1157.0	1176.6	1194.5	1193.6
35°	1101.6	1115.9	1137.3	1157.9	1157.0
37.5°	1057.0	1074.0	1096.3	1118.6	1119.5
40°	1013.3	1029.3	1054.3	1078.4	1079.3
42.5°	966.8	983.8	1010.6	1035.6	1036.5
45°	917.7	937.4	964.2	990.9	995.4
47.5°	867.7	888.3	915.9	944.5	949.9
50°	816.0	837.4	866.8	897.2	902.6
52.5°	763.3	785.6	816.0	846.3	854.3
55°	711.5	732.0	765.1	798.1	805.2
57.5°	657.1	675.8	711.5	746.3	755.3
60°	597.2	620.5	657.1	691.9	706.2
62.5°	539.2	564.2	601.7	636.5	652.6
65°	481.2	506.2	544.6	581.2	597.2
67.5°	422.3	448.2	489.2	524.0	541.9
70°	363.3	389.2	428.5	466.0	484.8
72.5°	304.4	332.1	370.5	408.9	427.6
75°	244.6	273.2	312.5	350.0	373.2
77.5°	188.4	216.0	255.3	293.7	313.4
80°	134.8	162.5	200.9	239.3	259.8
82.5°	85.7	111.6	149.1	181.2	200.0
85°	44.6	66.1	94.6	105.3	117.8
87.5°	13.4	25.9	36.6	41.1	50.9
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	14.27	15.94	14.64	16.25	16.57	15.02	16.68	15.39	17.00	17.31
	3H	16.04	17.54	16.41	17.87	18.23	17.12	18.62	17.49	18.95	19.31
	4H	16.66	18.08	17.06	18.43	18.81	18.00	19.42	18.40	19.77	20.15
	6H	17.07	18.39	17.48	18.76	19.15	18.77	20.09	19.18	20.45	20.84
	8H	17.18	18.44	17.60	18.83	19.23	19.08	20.34	19.50	20.73	21.13
	12H	17.23	18.44	17.66	18.82	19.25	19.29	20.50	19.72	20.88	21.31
4H	2H	15.04	16.47	15.44	16.81	17.19	15.62	17.05	16.02	17.39	17.77
	3H	17.04	18.24	17.45	18.63	19.03	17.95	19.15	18.36	19.55	19.95
	4H	17.79	18.88	18.22	19.29	19.73	18.99	20.07	19.42	20.49	20.92
	6H	18.33	19.28	18.78	19.72	20.17	19.92	20.87	20.37	21.31	21.76
	8H	18.48	19.37	18.93	19.81	20.27	20.30	21.19	20.76	21.64	22.10
	12H	18.56	19.37	19.04	19.84	20.31	20.58	21.38	21.06	21.86	22.32
8H	4H	18.24	19.14	18.70	19.58	20.04	19.29	20.18	19.75	20.62	21.09
	6H	18.92	19.67	19.41	20.15	20.63	20.37	21.12	20.86	21.60	22.08
	8H	19.14	19.81	19.65	20.32	20.80	20.86	21.53	21.37	22.03	22.52
	12H	19.29	19.88	19.79	20.37	20.93	21.23	21.83	21.74	22.32	22.87
12H	4H	18.33	19.13	18.81	19.61	20.07	19.32	20.12	19.79	20.59	21.06
	6H	19.05	19.72	19.56	20.22	20.71	20.42	21.09	20.93	21.60	22.08
	8H	19.34	19.93	19.85	20.42	20.98	20.98	21.57	21.48	22.06	22.62