

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: P1589735

Luminaire Tested: 24CZSP-SB-42-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589735
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

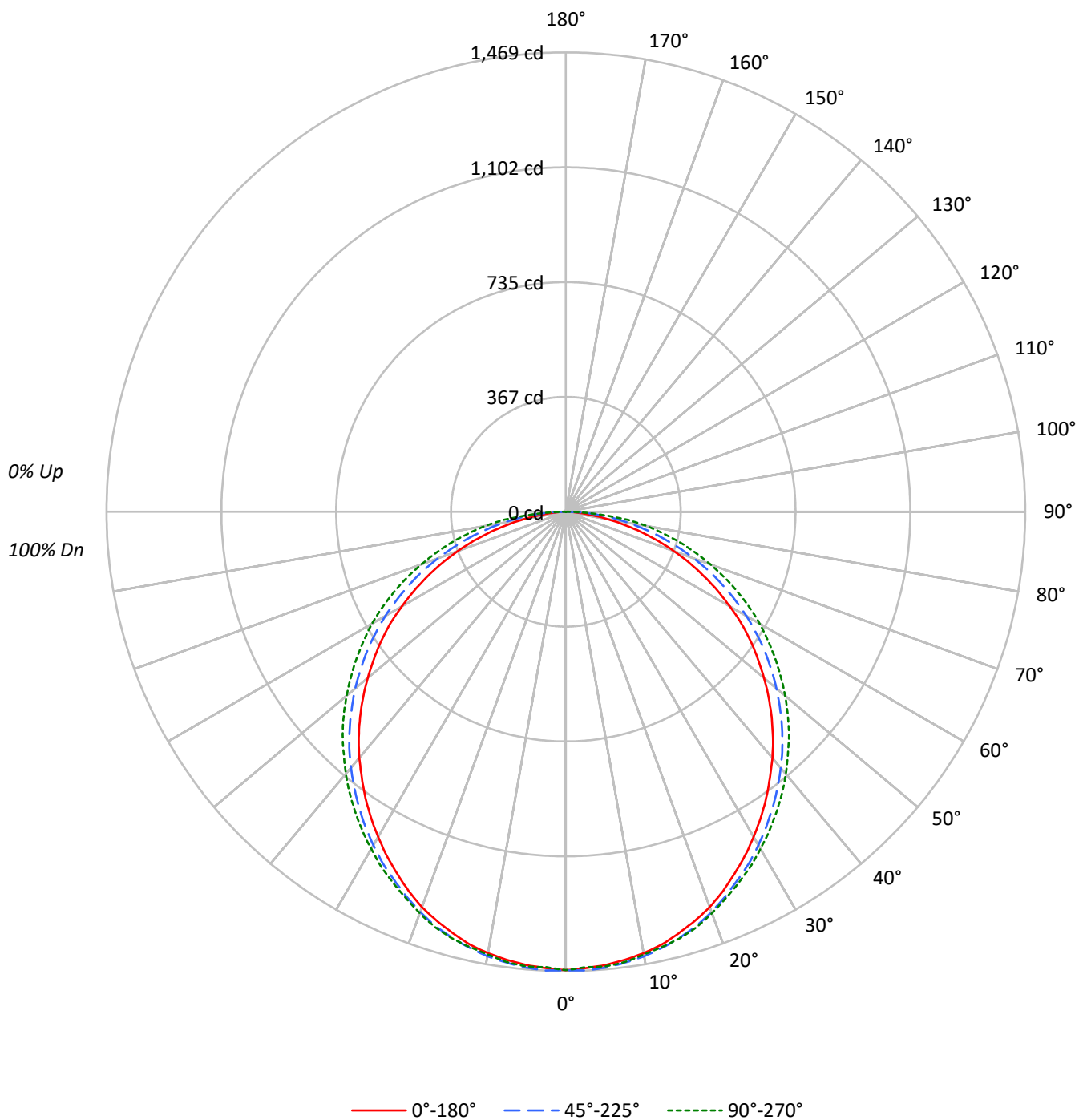
Lumens per Lamp: N/A
Luminaire Lumens: 4278.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2245	2245	2245
5°	2237	2250	2244
10°	2229	2245	2236
15°	2212	2235	2238
20°	2193	2220	2227
25°	2158	2196	2211
30°	2123	2178	2202
35°	2089	2157	2194
40°	2055	2138	2189
45°	2016	2118	2187
50°	1972	2095	2181
55°	1927	2072	2181
60°	1855	2041	2194
65°	1769	2002	2195
70°	1650	1946	2202
75°	1468	1875	2240
80°	1206	1797	2324
85°	796	1687	2100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.2
10°-20°	396.9	9.3
20°-30°	598.2	14.0
30°-40°	720.4	16.8
40°-50°	752.7	17.6
50°-60°	691.5	16.2
60°-70°	544.5	12.7
70°-80°	333.9	7.8
80°-90°	101.2	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°	1133.8	26.5
0°-40°	1854.2	43.3
0°-60°	3298.4	77.1
0°-90°	4278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1455	1458	1463	1461	1460	138
15°	1395	1401	1410	1415	1412	394
25°	1277	1285	1299	1313	1308	589
35°	1117	1132	1154	1174	1173	699
45°	931	951	978	1005	1010	718
55°	722	742	776	810	817	644
65°	488	513	552	589	606	482
75°	248	277	317	355	378	264
85°	45	67	96	107	120	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.9	1465.9	1465.9	1465.9	1465.9
2.5°	1460.5	1464.1	1468.6	1461.4	1457.8
5°	1455.0	1457.8	1463.2	1461.4	1459.6
7.5°	1445.1	1446.9	1454.1	1454.1	1452.3
10°	1433.3	1436.9	1443.3	1442.4	1437.8
12.5°	1417.9	1420.6	1427.9	1427.9	1425.2
15°	1395.3	1400.7	1409.8	1415.2	1411.6
17.5°	1371.7	1377.2	1388.9	1394.4	1392.6
20°	1345.5	1350.0	1361.8	1369.9	1366.3
22.5°	1312.9	1318.3	1331.9	1340.9	1337.3
25°	1276.7	1284.8	1299.3	1312.9	1308.4
27.5°	1240.4	1249.5	1267.6	1281.2	1279.4
30°	1200.6	1212.4	1231.4	1248.6	1245.0
32.5°	1159.9	1173.4	1193.4	1211.5	1210.6
35°	1117.3	1131.8	1153.5	1174.3	1173.4
37.5°	1072.0	1089.2	1111.9	1134.5	1135.4
40°	1027.7	1044.0	1069.3	1093.8	1094.7
42.5°	980.6	997.8	1025.0	1050.3	1051.2
45°	930.8	950.7	977.9	1005.0	1009.6
47.5°	880.1	900.9	929.0	958.0	963.4
50°	827.6	849.3	879.2	910.0	915.4
52.5°	774.1	796.8	827.6	858.4	866.5
55°	721.6	742.5	776.0	809.5	816.7
57.5°	666.4	685.4	721.6	756.9	766.0
60°	605.7	629.3	666.4	701.7	716.2
62.5°	546.9	572.2	610.3	645.6	661.9
65°	488.0	513.4	552.3	589.4	605.7
67.5°	428.3	454.5	496.2	531.5	549.6
70°	368.5	394.8	434.6	472.6	491.7
72.5°	308.8	336.8	375.8	414.7	433.7
75°	248.1	277.1	316.9	354.9	378.5
77.5°	191.0	219.1	259.0	297.9	317.8
80°	136.7	164.8	203.7	242.7	263.5
82.5°	86.9	113.2	151.2	183.8	202.8
85°	45.3	67.0	96.0	106.8	119.5
87.5°	13.6	26.3	37.1	41.7	51.6
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	14.32	15.99	14.69	16.30	16.61	15.07	16.73	15.43	17.05	17.36
	3H	16.09	17.59	16.46	17.92	18.28	17.17	18.67	17.54	19.00	19.36
	4H	16.71	18.13	17.11	18.48	18.86	18.05	19.47	18.45	19.82	20.19
	6H	17.12	18.44	17.53	18.81	19.20	18.82	20.14	19.23	20.50	20.89
	8H	17.23	18.49	17.65	18.88	19.28	19.13	20.39	19.55	20.78	21.18
	12H	17.28	18.49	17.71	18.87	19.30	19.34	20.55	19.77	20.93	21.36
4H	2H	15.09	16.52	15.49	16.86	17.24	15.67	17.10	16.07	17.44	17.82
	3H	17.09	18.29	17.50	18.68	19.08	18.00	19.20	18.41	19.60	20.00
	4H	17.84	18.93	18.27	19.34	19.77	19.04	20.12	19.47	20.54	20.97
	6H	18.38	19.33	18.83	19.77	20.22	19.97	20.92	20.42	21.36	21.81
	8H	18.52	19.42	18.98	19.86	20.32	20.35	21.24	20.81	21.68	22.15
	12H	18.61	19.41	19.09	19.89	20.36	20.63	21.43	21.11	21.90	22.37
8H	4H	18.29	19.19	18.75	19.63	20.09	19.34	20.23	19.80	20.67	21.13
	6H	18.97	19.72	19.46	20.20	20.68	20.42	21.17	20.91	21.65	22.13
	8H	19.19	19.86	19.70	20.36	20.85	20.91	21.58	21.42	22.08	22.57
	12H	19.34	19.93	19.84	20.42	20.98	21.28	21.88	21.79	22.36	22.92
12H	4H	18.38	19.18	18.86	19.65	20.12	19.36	20.17	19.84	20.64	21.11
	6H	19.10	19.77	19.61	20.27	20.76	20.47	21.14	20.98	21.65	22.13
	8H	19.39	19.98	19.89	20.47	21.03	21.03	21.62	21.53	22.11	22.67