

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: P1589734

Luminaire Tested: 24CZSP-SB-42-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-42-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

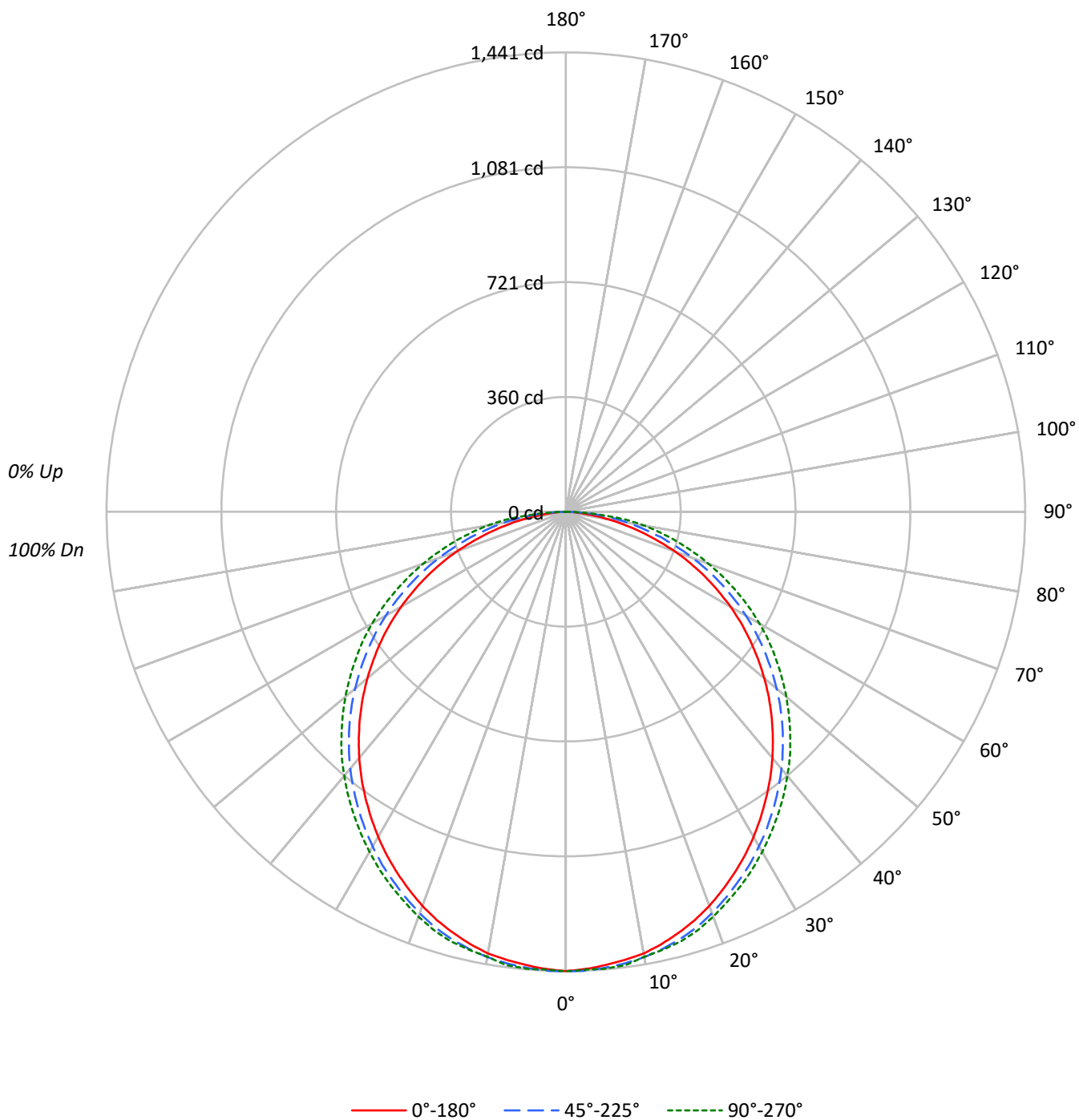
Lumens per Lamp: N/A
Luminaire Lumens: 4192.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2207	2207	2207
5°	2195	2207	2212
10°	2188	2206	2205
15°	2168	2199	2212
20°	2144	2184	2203
25°	2114	2162	2190
30°	2083	2144	2179
35°	2049	2123	2168
40°	2016	2104	2162
45°	1979	2082	2157
50°	1936	2056	2151
55°	1888	2030	2148
60°	1829	2000	2149
65°	1745	1958	2138
70°	1631	1898	2132
75°	1446	1825	2140
80°	1178	1734	2203
85°	761	1601	1901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2233 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.3
10°-20°	390.5	9.3
20°-30°	588.8	14.0
30°-40°	708.5	16.9
40°-50°	739.0	17.6
50°-60°	677.4	16.2
60°-70°	531.9	12.7
70°-80°	323.7	7.7
80°-90°	95.8	2.3
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°	1115.7	26.6
0°-40°	1824.2	43.5
0°-60°	3240.6	77.3
0°-90°	4192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1428	1437	1436	1434	1438	136
15°	1367	1381	1387	1389	1395	386
25°	1251	1268	1280	1288	1296	576
35°	1096	1113	1135	1152	1160	686
45°	914	932	961	984	996	704
55°	707	725	760	791	804	632
65°	482	500	540	576	590	476
75°	244	267	308	345	362	259
85°	43	61	91	102	108	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.1	1441.1	1441.1	1441.1	1441.1
2.5°	1435.7	1442.9	1441.1	1434.8	1437.5
5°	1427.5	1436.6	1435.7	1433.9	1438.4
7.5°	1417.6	1427.5	1428.4	1428.4	1433.9
10°	1406.8	1416.7	1418.5	1415.8	1417.6
12.5°	1388.8	1400.5	1404.1	1404.1	1406.8
15°	1367.1	1380.6	1387.0	1388.8	1395.1
17.5°	1343.7	1358.1	1366.2	1370.7	1376.1
20°	1315.7	1331.0	1340.1	1345.5	1351.8
22.5°	1284.2	1301.3	1311.2	1316.6	1323.8
25°	1250.8	1267.9	1279.6	1287.8	1295.9
27.5°	1215.6	1231.8	1248.1	1258.0	1265.2
30°	1177.7	1194.9	1212.0	1224.6	1231.8
32.5°	1137.2	1155.2	1175.0	1188.6	1196.7
35°	1095.7	1112.8	1135.4	1151.6	1159.7
37.5°	1053.3	1071.3	1094.8	1111.9	1121.8
40°	1008.2	1027.1	1052.4	1071.3	1081.2
42.5°	961.3	979.3	1007.3	1028.9	1040.7
45°	913.5	932.5	961.3	983.9	995.6
47.5°	863.9	882.0	913.5	939.7	949.6
50°	812.5	829.6	863.0	891.0	902.7
52.5°	760.2	778.2	811.6	841.4	854.0
55°	707.0	725.0	760.2	790.9	804.4
57.5°	652.9	670.9	707.0	738.6	754.8
60°	597.0	615.0	652.9	685.4	701.6
62.5°	539.3	558.2	597.0	630.4	647.5
65°	481.6	499.6	540.2	576.2	589.8
67.5°	423.8	441.9	481.6	517.6	533.9
70°	364.3	385.1	423.8	461.7	476.1
72.5°	302.1	325.5	364.3	404.0	418.4
75°	244.4	266.9	308.4	345.4	361.6
77.5°	187.6	211.9	250.7	288.6	304.8
80°	133.5	156.9	196.6	232.7	249.8
82.5°	84.8	105.5	145.2	177.7	190.3
85°	43.3	61.3	91.1	101.9	108.2
87.5°	12.6	21.6	32.5	40.6	45.1
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	14.25	15.91	14.61	16.22	16.54	14.99	16.65	15.35	16.96	17.27
	3H	16.02	17.52	16.39	17.85	18.21	17.06	18.57	17.44	18.90	19.26
	4H	16.64	18.06	17.04	18.40	18.78	17.93	19.35	18.33	19.70	20.07
	6H	17.05	18.36	17.46	18.73	19.12	18.67	19.99	19.08	20.36	20.75
	8H	17.15	18.41	17.57	18.80	19.20	18.97	20.23	19.39	20.62	21.02
	12H	17.20	18.41	17.63	18.79	19.22	19.16	20.37	19.59	20.75	21.18
4H	2H	15.02	16.44	15.42	16.79	17.16	15.59	17.01	15.99	17.36	17.73
	3H	17.01	18.21	17.42	18.60	19.00	17.90	19.10	18.31	19.49	19.89
	4H	17.75	18.84	18.18	19.25	19.68	18.92	20.01	19.35	20.42	20.85
	6H	18.28	19.23	18.73	19.67	20.12	19.83	20.78	20.28	21.22	21.67
	8H	18.42	19.31	18.88	19.75	20.22	20.19	21.08	20.65	21.52	21.99
	12H	18.50	19.30	18.98	19.78	20.25	20.45	21.25	20.93	21.72	22.19
8H	4H	18.20	19.09	18.66	19.53	19.99	19.22	20.11	19.68	20.55	21.01
	6H	18.86	19.60	19.35	20.09	20.56	20.28	21.02	20.77	21.51	21.98
	8H	19.07	19.74	19.58	20.24	20.73	20.75	21.41	21.26	21.92	22.40
	12H	19.21	19.80	19.71	20.29	20.84	21.10	21.69	21.61	22.18	22.74
12H	4H	18.28	19.08	18.76	19.55	20.02	19.25	20.05	19.72	20.52	20.99
	6H	18.98	19.65	19.49	20.16	20.64	20.33	20.99	20.83	21.50	21.98
	8H	19.26	19.85	19.77	20.34	20.90	20.87	21.45	21.37	21.94	22.50