

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: P1589736

Luminaire Tested: 24CZSP-SB-42-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589736
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-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

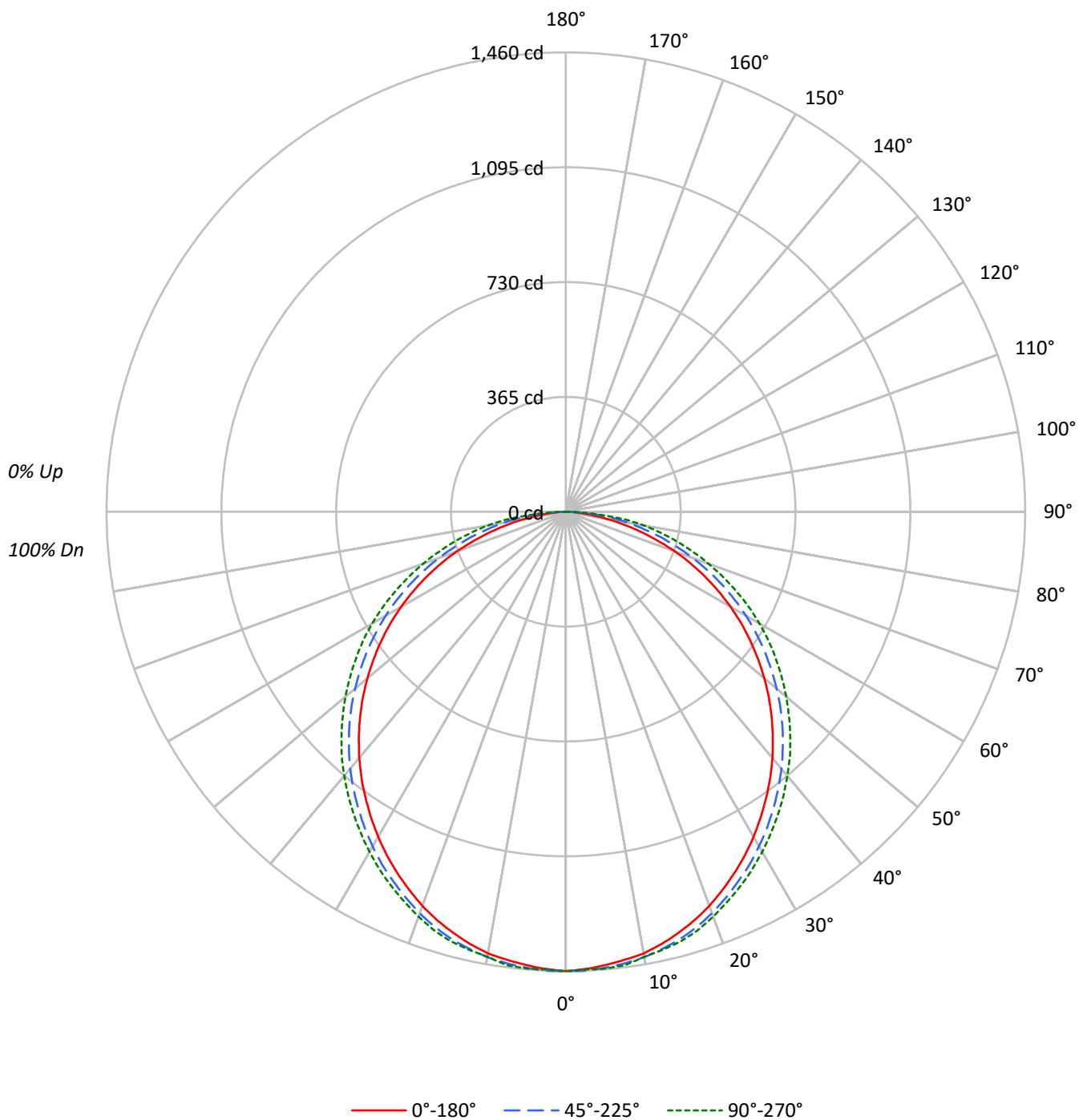
Lumens per Lamp: N/A
Luminaire Lumens: 4247.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2236	2236	2236
5°	2224	2236	2240
10°	2217	2235	2234
15°	2196	2228	2241
20°	2173	2213	2232
25°	2142	2191	2219
30°	2110	2172	2207
35°	2076	2151	2197
40°	2042	2132	2190
45°	2005	2110	2185
50°	1962	2083	2179
55°	1913	2057	2176
60°	1853	2026	2177
65°	1768	1983	2165
70°	1653	1923	2160
75°	1465	1849	2168
80°	1193	1757	2232
85°	771	1622	1926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.3
10°-20°	395.6	9.3
20°-30°	596.5	14.0
30°-40°	717.8	16.9
40°-50°	748.7	17.6
50°-60°	686.3	16.2
60°-70°	538.9	12.7
70°-80°	328.0	7.7
80°-90°	97.0	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°	1130.3	26.6
0°-40°	1848.1	43.5
0°-60°	3283.1	77.3
0°-90°	4247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1446	1455	1454	1453	1457	137
15°	1385	1399	1405	1407	1413	391
25°	1267	1285	1296	1305	1313	584
35°	1110	1127	1150	1167	1175	695
45°	926	945	974	997	1009	714
55°	716	735	770	801	815	640
65°	488	506	547	584	598	483
75°	248	270	312	350	366	262
85°	44	62	92	103	110	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.0	1460.0	1460.0	1460.0	1460.0
2.5°	1454.5	1461.8	1460.0	1453.6	1456.3
5°	1446.3	1455.4	1454.5	1452.7	1457.2
7.5°	1436.2	1446.3	1447.2	1447.2	1452.7
10°	1425.3	1435.3	1437.1	1434.4	1436.2
12.5°	1407.0	1418.9	1422.5	1422.5	1425.3
15°	1385.1	1398.8	1405.2	1407.0	1413.4
17.5°	1361.3	1375.9	1384.1	1388.7	1394.2
20°	1333.0	1348.5	1357.6	1363.1	1369.5
22.5°	1301.0	1318.4	1328.4	1333.9	1341.2
25°	1267.2	1284.6	1296.4	1304.7	1312.9
27.5°	1231.6	1248.0	1264.5	1274.5	1281.8
30°	1193.2	1210.6	1227.9	1240.7	1248.0
32.5°	1152.1	1170.4	1190.5	1204.2	1212.4
35°	1110.1	1127.4	1150.3	1166.7	1174.9
37.5°	1067.1	1085.4	1109.1	1126.5	1136.5
40°	1021.4	1040.6	1066.2	1085.4	1095.4
42.5°	973.9	992.2	1020.5	1042.4	1054.3
45°	925.5	944.7	973.9	996.8	1008.6
47.5°	875.3	893.5	925.5	952.0	962.0
50°	823.2	840.5	874.3	902.7	914.5
52.5°	770.2	788.5	822.3	852.4	865.2
55°	716.3	734.6	770.2	801.2	815.0
57.5°	661.5	679.7	716.3	748.3	764.7
60°	604.8	623.1	661.5	694.4	710.8
62.5°	546.3	565.5	604.8	638.6	656.0
65°	487.9	506.1	547.3	583.8	597.5
67.5°	429.4	447.7	487.9	524.4	540.9
70°	369.1	390.1	429.4	467.8	482.4
72.5°	306.1	329.8	369.1	409.3	423.9
75°	247.6	270.4	312.5	349.9	366.4
77.5°	190.0	214.7	254.0	292.4	308.8
80°	135.2	159.0	199.2	235.7	253.1
82.5°	85.9	106.9	147.1	180.0	192.8
85°	43.9	62.1	92.3	103.2	109.6
87.5°	12.8	21.9	32.9	41.1	45.7
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	14.30	15.96	14.66	16.27	16.58	15.03	16.69	15.40	17.01	17.32
	3H	16.06	17.57	16.44	17.89	18.25	17.11	18.62	17.49	18.94	19.30
	4H	16.68	18.10	17.08	18.45	18.82	17.98	19.40	18.37	19.74	20.12
	6H	17.09	18.41	17.50	18.77	19.16	18.72	20.04	19.13	20.40	20.79
	8H	17.19	18.45	17.62	18.84	19.24	19.02	20.28	19.44	20.66	21.06
	12H	17.24	18.45	17.67	18.83	19.26	19.21	20.42	19.64	20.80	21.23
4H	2H	15.06	16.48	15.46	16.83	17.21	15.64	17.06	16.03	17.40	17.78
	3H	17.05	18.25	17.46	18.65	19.05	17.95	19.14	18.36	19.54	19.94
	4H	17.80	18.88	18.23	19.29	19.73	18.97	20.05	19.40	20.46	20.90
	6H	18.33	19.28	18.78	19.72	20.17	19.87	20.82	20.33	21.26	21.72
	8H	18.47	19.36	18.93	19.80	20.26	20.24	21.13	20.70	21.57	22.03
	12H	18.55	19.35	19.03	19.82	20.29	20.49	21.29	20.97	21.77	22.24
8H	4H	18.24	19.13	18.70	19.57	20.04	19.26	20.15	19.72	20.60	21.06
	6H	18.91	19.65	19.40	20.13	20.61	20.32	21.06	20.81	21.55	22.02
	8H	19.12	19.78	19.62	20.29	20.77	20.79	21.46	21.30	21.96	22.45
	12H	19.25	19.84	19.76	20.33	20.89	21.15	21.74	21.65	22.22	22.78
12H	4H	18.32	19.12	18.80	19.60	20.07	19.29	20.09	19.77	20.57	21.03
	6H	19.03	19.70	19.54	20.20	20.69	20.37	21.04	20.88	21.55	22.03
	8H	19.31	19.90	19.81	20.39	20.95	20.91	21.50	21.42	21.99	22.55