

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: P1589746

Luminaire Tested: 24CZSP-SB-42-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589746
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-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

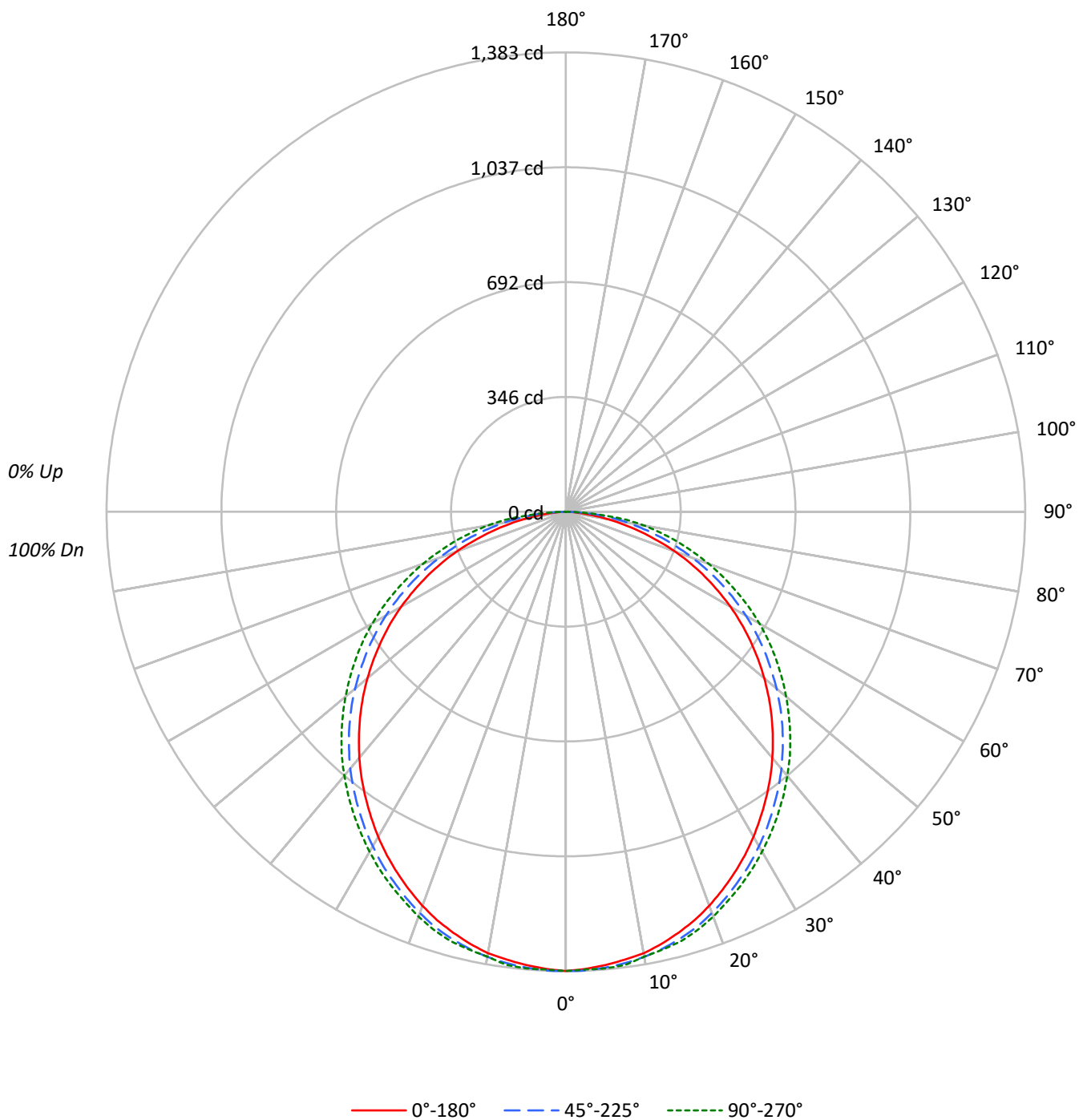
Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2118	2118	2118
5°	2106	2118	2122
10°	2099	2117	2115
15°	2080	2110	2122
20°	2058	2096	2114
25°	2028	2075	2101
30°	1998	2057	2090
35°	1966	2037	2080
40°	1934	2019	2074
45°	1899	1998	2069
50°	1858	1973	2064
55°	1811	1948	2061
60°	1755	1919	2062
65°	1674	1878	2051
70°	1565	1821	2046
75°	1388	1751	2053
80°	1130	1664	2114
85°	729	1536	1824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.3
10°-20°	374.7	9.3
20°-30°	564.9	14.0
30°-40°	679.8	16.9
40°-50°	709.0	17.6
50°-60°	649.9	16.2
60°-70°	510.3	12.7
70°-80°	310.6	7.7
80°-90°	91.9	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°	1070.5	26.6
0°-40°	1750.2	43.5
0°-60°	3109.2	77.3
0°-90°	4022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1370	1378	1377	1376	1380	130
15°	1312	1325	1331	1332	1338	370
25°	1200	1216	1228	1236	1243	553
35°	1051	1068	1089	1105	1113	658
45°	876	895	922	944	955	676
55°	678	696	729	759	772	606
65°	462	479	518	553	566	457
75°	234	256	296	331	347	249
85°	42	59	87	98	104	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1377.4	1384.4	1382.6	1376.6	1379.2
5°	1369.6	1378.3	1377.4	1375.7	1380.0
7.5°	1360.1	1369.6	1370.5	1370.5	1375.7
10°	1349.7	1359.3	1361.0	1358.4	1360.1
12.5°	1332.4	1343.7	1347.2	1347.2	1349.7
15°	1311.7	1324.7	1330.7	1332.4	1338.5
17.5°	1289.2	1303.0	1310.8	1315.1	1320.3
20°	1262.4	1277.1	1285.7	1290.9	1297.0
22.5°	1232.1	1248.5	1258.0	1263.2	1270.1
25°	1200.1	1216.5	1227.7	1235.5	1243.3
27.5°	1166.3	1181.9	1197.5	1207.0	1213.9
30°	1130.0	1146.4	1162.9	1175.0	1181.9
32.5°	1091.0	1108.3	1127.4	1140.4	1148.1
35°	1051.2	1067.7	1089.3	1104.9	1112.7
37.5°	1010.6	1027.9	1050.4	1066.8	1076.3
40°	967.3	985.5	1009.7	1027.9	1037.4
42.5°	922.3	939.6	966.5	987.2	998.5
45°	876.5	894.6	922.3	944.0	955.2
47.5°	828.9	846.2	876.5	901.6	911.1
50°	779.6	796.0	828.0	854.8	866.1
52.5°	729.4	746.7	778.7	807.3	819.4
55°	678.3	695.6	729.4	758.8	771.8
57.5°	626.4	643.7	678.3	708.6	724.2
60°	572.8	590.1	626.4	657.6	673.1
62.5°	517.4	535.6	572.8	604.8	621.2
65°	462.0	479.3	518.3	552.9	565.9
67.5°	406.7	424.0	462.0	496.6	512.2
70°	349.5	369.4	406.7	443.0	456.8
72.5°	289.8	312.3	349.5	387.6	401.5
75°	234.5	256.1	295.9	331.4	347.0
77.5°	180.0	203.3	240.5	276.9	292.4
80°	128.1	150.5	188.6	223.2	239.7
82.5°	81.3	101.2	139.3	170.4	182.6
85°	41.5	58.8	87.4	97.8	103.8
87.5°	12.1	20.8	31.1	38.9	43.3
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	14.11	15.77	14.47	16.08	16.39	14.84	16.50	15.21	16.82	17.13
	3H	15.87	17.38	16.25	17.71	18.07	16.92	18.43	17.30	18.75	19.11
	4H	16.49	17.91	16.89	18.26	18.64	17.79	19.21	18.18	19.55	19.93
	6H	16.90	18.22	17.31	18.58	18.97	18.53	19.85	18.94	20.21	20.60
	8H	17.01	18.27	17.43	18.65	19.05	18.83	20.09	19.25	20.47	20.87
	12H	17.05	18.26	17.48	18.64	19.07	19.02	20.23	19.45	20.61	21.04
4H	2H	14.87	16.29	15.27	16.64	17.02	15.45	16.87	15.84	17.21	17.59
	3H	16.87	18.06	17.27	18.46	18.86	17.76	18.95	18.17	19.35	19.75
	4H	17.61	18.69	18.04	19.10	19.54	18.78	19.86	19.21	20.27	20.71
	6H	18.14	19.09	18.59	19.53	19.98	19.68	20.63	20.14	21.07	21.53
	8H	18.28	19.17	18.74	19.61	20.07	20.05	20.94	20.51	21.38	21.85
	12H	18.36	19.16	18.84	19.63	20.10	20.30	21.11	20.78	21.58	22.05
8H	4H	18.05	18.94	18.51	19.38	19.85	19.08	19.96	19.53	20.41	20.87
	6H	18.72	19.46	19.21	19.95	20.42	20.13	20.87	20.62	21.36	21.84
	8H	18.93	19.59	19.43	20.10	20.58	20.60	21.27	21.11	21.78	22.26
	12H	19.06	19.65	19.57	20.14	20.70	20.96	21.55	21.46	22.04	22.59
12H	4H	18.13	18.94	18.61	19.41	19.88	19.10	19.90	19.58	20.38	20.85
	6H	18.84	19.51	19.35	20.01	20.50	20.18	20.85	20.69	21.36	21.84
	8H	19.12	19.71	19.62	20.20	20.76	20.72	21.31	21.23	21.80	22.36