

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: P1589737

Luminaire Tested: 24CZSP-SB-42-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589737
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-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

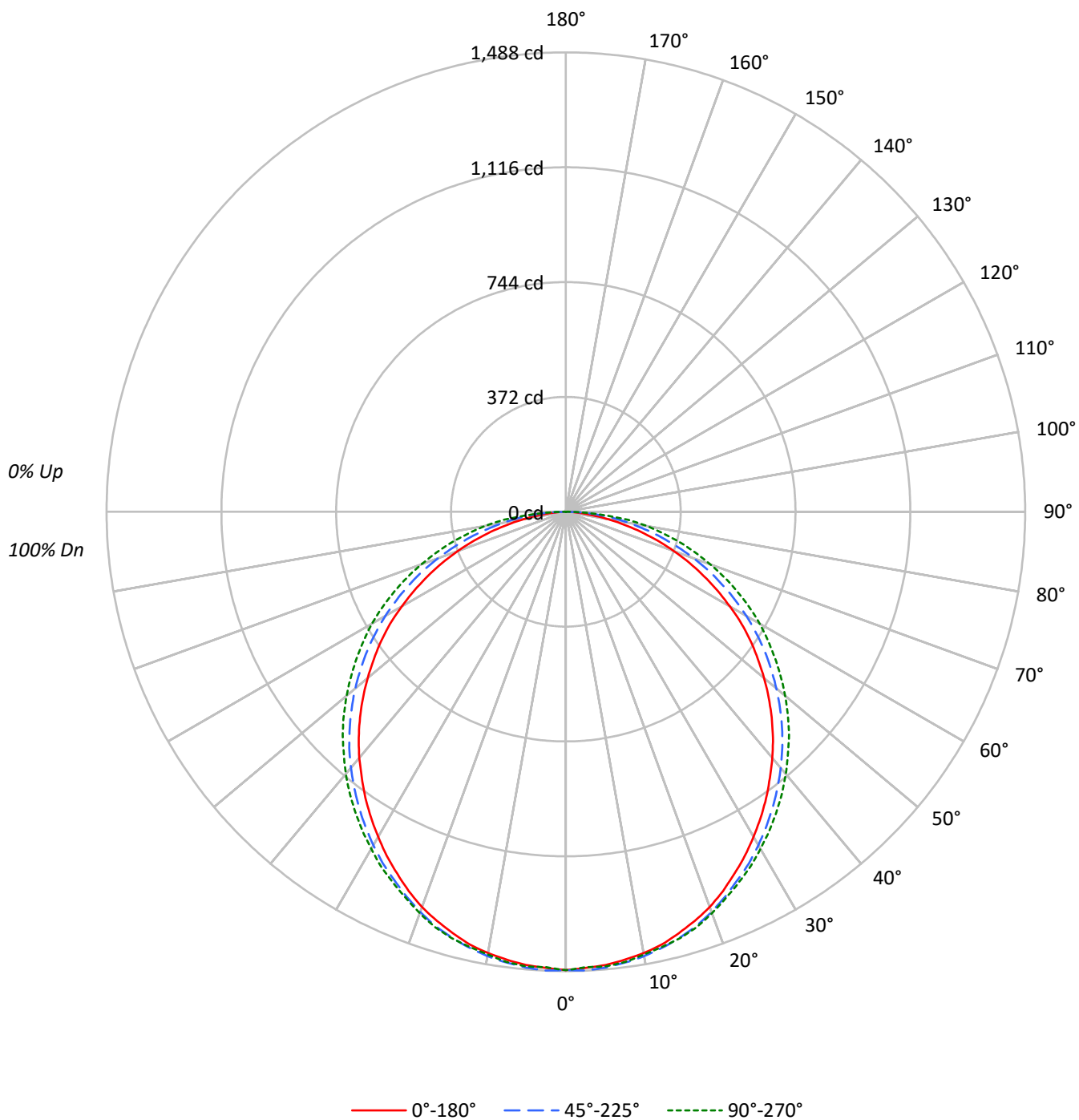
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 151.0 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°	2274	2274	2274
5°	2266	2279	2273
10°	2258	2273	2265
15°	2241	2264	2267
20°	2221	2248	2256
25°	2185	2224	2240
30°	2151	2206	2230
35°	2116	2185	2222
40°	2081	2166	2217
45°	2042	2145	2215
50°	1997	2122	2209
55°	1952	2099	2209
60°	1879	2068	2222
65°	1791	2027	2223
70°	1671	1971	2230
75°	1487	1900	2268
80°	1222	1820	2354
85°	807	1708	2128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2410 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	3.2
10°-20°	402.0	9.3
20°-30°	605.9	14.0
30°-40°	729.7	16.8
40°-50°	762.3	17.6
50°-60°	700.4	16.2
60°-70°	551.5	12.7
70°-80°	338.1	7.8
80°-90°	102.5	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°	1148.4	26.5
0°-40°	1878.1	43.3
0°-60°	3340.8	77.1
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1474	1476	1482	1480	1478	140
15°	1413	1419	1428	1433	1430	399
25°	1293	1301	1316	1330	1325	596
35°	1132	1146	1168	1189	1188	708
45°	943	963	990	1018	1022	727
55°	731	752	786	820	827	652
65°	494	520	559	597	614	489
75°	251	281	321	360	383	267
85°	46	68	97	108	121	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1479.2	1482.9	1487.5	1480.2	1476.5
5°	1473.7	1476.5	1482.0	1480.2	1478.3
7.5°	1463.7	1465.5	1472.8	1472.8	1471.0
10°	1451.7	1455.4	1461.8	1460.9	1456.3
12.5°	1436.1	1438.9	1446.2	1446.2	1443.5
15°	1413.2	1418.7	1427.9	1433.4	1429.7
17.5°	1389.4	1394.9	1406.8	1412.3	1410.5
20°	1362.8	1367.4	1379.3	1387.5	1383.9
22.5°	1329.8	1335.3	1349.0	1358.2	1354.5
25°	1293.1	1301.3	1316.0	1329.8	1325.2
27.5°	1256.4	1265.6	1283.9	1297.7	1295.8
30°	1216.0	1228.0	1247.2	1264.6	1261.0
32.5°	1174.8	1188.5	1208.7	1227.0	1226.1
35°	1131.7	1146.3	1168.4	1189.4	1188.5
37.5°	1085.8	1103.2	1126.2	1149.1	1150.0
40°	1040.9	1057.4	1083.1	1107.8	1108.7
42.5°	993.2	1010.6	1038.1	1063.8	1064.7
45°	942.8	962.9	990.4	1018.0	1022.5
47.5°	891.4	912.5	940.9	970.3	975.8
50°	838.2	860.2	890.5	921.7	927.2
52.5°	784.1	807.0	838.2	869.4	877.6
55°	730.9	752.0	785.9	819.9	827.2
57.5°	675.0	694.2	730.9	766.7	775.8
60°	613.5	637.4	675.0	710.7	725.4
62.5°	553.9	579.6	618.1	653.9	670.4
65°	494.3	520.0	559.4	597.0	613.5
67.5°	433.8	460.4	502.6	538.3	556.7
70°	373.2	399.8	440.2	478.7	498.0
72.5°	312.7	341.2	380.6	420.0	439.3
75°	251.3	280.6	321.0	359.5	383.3
77.5°	193.5	221.9	262.3	301.7	321.9
80°	138.5	166.9	206.3	245.8	266.9
82.5°	88.0	114.6	153.2	186.2	205.4
85°	45.9	67.9	97.2	108.2	121.1
87.5°	13.8	26.6	37.6	42.2	52.3
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	14.37	16.03	14.73	16.34	16.66	15.11	16.78	15.48	17.09	17.41
	3H	16.13	17.64	16.51	17.96	18.32	17.21	18.72	17.59	19.04	19.40
	4H	16.75	18.18	17.15	18.52	18.90	18.09	19.52	18.49	19.86	20.24
	6H	17.17	18.49	17.58	18.85	19.24	18.86	20.18	19.27	20.55	20.94
	8H	17.27	18.54	17.70	18.92	19.32	19.17	20.44	19.60	20.82	21.22
	12H	17.33	18.54	17.75	18.92	19.35	19.39	20.60	19.81	20.98	21.41
4H	2H	15.14	16.56	15.54	16.91	17.28	15.72	17.14	16.12	17.49	17.86
	3H	17.13	18.33	17.54	18.73	19.13	18.05	19.24	18.46	19.64	20.04
	4H	17.89	18.97	18.32	19.38	19.82	19.08	20.17	19.51	20.58	21.01
	6H	18.42	19.37	18.87	19.81	20.27	20.01	20.96	20.46	21.40	21.86
	8H	18.57	19.46	19.03	19.90	20.37	20.40	21.29	20.85	21.73	22.19
	12H	18.65	19.46	19.13	19.93	20.40	20.67	21.47	21.15	21.95	22.42
8H	4H	18.34	19.23	18.80	19.67	20.14	19.38	20.27	19.84	20.71	21.18
	6H	19.01	19.76	19.51	20.25	20.72	20.46	21.21	20.96	21.70	22.17
	8H	19.24	19.90	19.74	20.41	20.89	20.95	21.62	21.46	22.13	22.61
	12H	19.38	19.97	19.89	20.46	21.02	21.33	21.92	21.83	22.41	22.97
12H	4H	18.42	19.22	18.90	19.70	20.17	19.41	20.21	19.89	20.69	21.15
	6H	19.14	19.81	19.65	20.32	20.80	20.52	21.19	21.02	21.69	22.18
	8H	19.43	20.03	19.94	20.52	21.07	21.07	21.66	21.58	22.15	22.71