

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: P1589782

Luminaire Tested: 24CZSP-SB-47-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589782
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-47-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

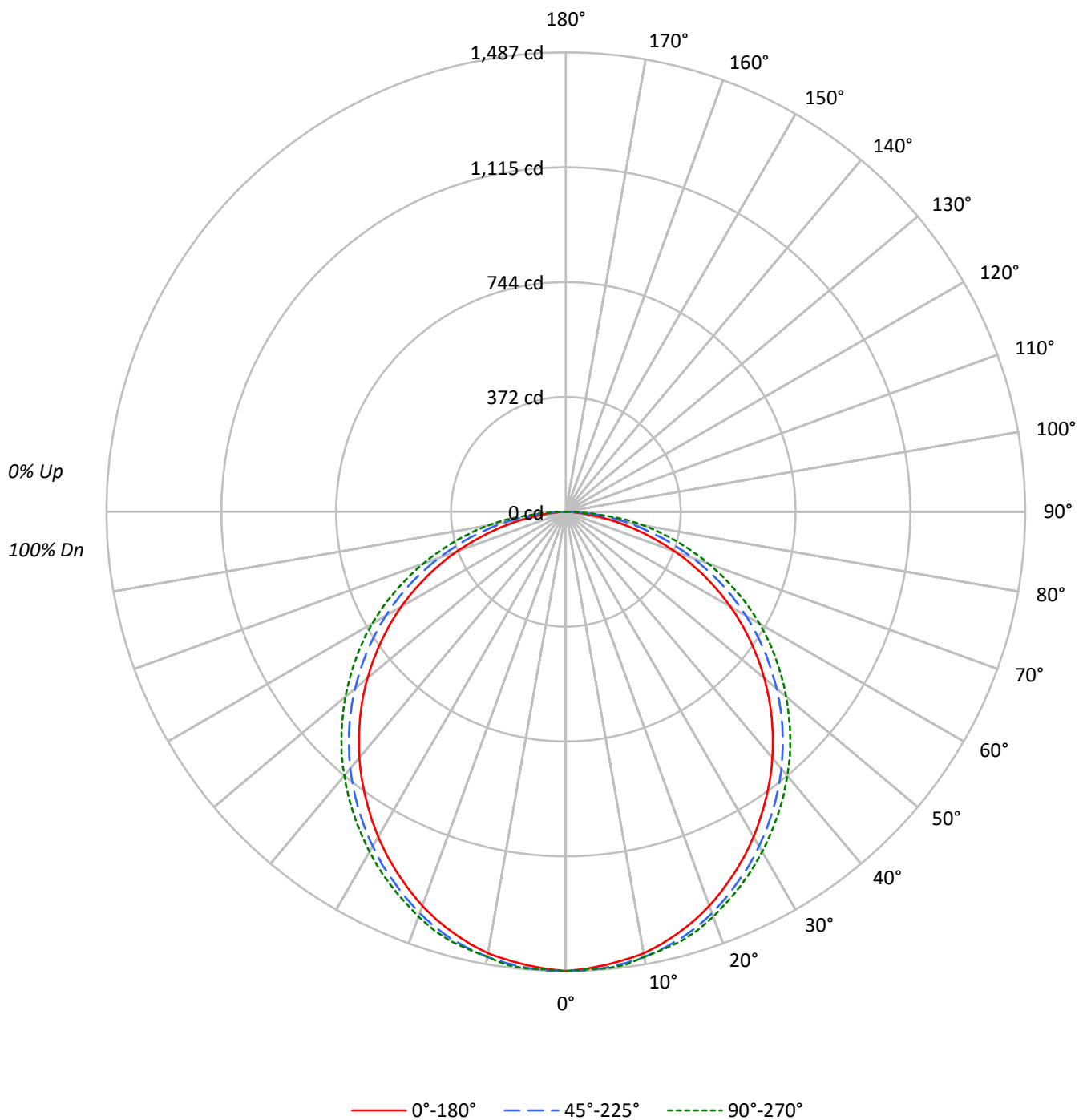
Lumens per Lamp: N/A
Luminaire Lumens: 4325.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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°	2277	2277	2277
5°	2264	2277	2282
10°	2257	2276	2275
15°	2237	2269	2282
20°	2213	2254	2273
25°	2181	2231	2259
30°	2149	2212	2248
35°	2114	2190	2237
40°	2080	2171	2231
45°	2041	2148	2225
50°	1997	2122	2219
55°	1948	2094	2216
60°	1887	2063	2217
65°	1800	2020	2205
70°	1683	1958	2200
75°	1492	1883	2208
80°	1215	1789	2273
85°	786	1652	1961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2303 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.3
10°-20°	402.9	9.3
20°-30°	607.5	14.0
30°-40°	731.0	16.9
40°-50°	762.5	17.6
50°-60°	698.9	16.2
60°-70°	548.8	12.7
70°-80°	334.0	7.7
80°-90°	98.8	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°	1151.1	26.6
0°-40°	1882.1	43.5
0°-60°	3343.4	77.3
0°-90°	4325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1473	1482	1481	1479	1484	140
15°	1410	1424	1431	1433	1439	398
25°	1290	1308	1320	1329	1337	595
35°	1130	1148	1171	1188	1196	707
45°	942	962	992	1015	1027	727
55°	729	748	784	816	830	652
65°	497	515	557	594	608	491
75°	252	275	318	356	373	267
85°	45	63	94	105	112	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1481.2	1488.6	1486.8	1480.3	1483.1
5°	1472.8	1482.1	1481.2	1479.3	1484.0
7.5°	1462.6	1472.8	1473.8	1473.8	1479.3
10°	1451.4	1461.7	1463.5	1460.7	1462.6
12.5°	1432.8	1444.9	1448.6	1448.6	1451.4
15°	1410.5	1424.4	1431.0	1432.8	1439.3
17.5°	1386.3	1401.2	1409.6	1414.2	1419.8
20°	1357.5	1373.3	1382.6	1388.2	1394.7
22.5°	1324.9	1342.6	1352.8	1358.4	1365.8
25°	1290.5	1308.1	1320.2	1328.6	1337.0
27.5°	1254.2	1270.9	1287.7	1297.9	1305.4
30°	1215.1	1232.8	1250.5	1263.5	1270.9
32.5°	1173.2	1191.8	1212.3	1226.3	1234.6
35°	1130.4	1148.1	1171.4	1188.1	1196.5
37.5°	1086.7	1105.3	1129.5	1147.2	1157.4
40°	1040.2	1059.7	1085.8	1105.3	1115.6
42.5°	991.8	1010.4	1039.3	1061.6	1073.7
45°	942.5	962.0	991.8	1015.1	1027.2
47.5°	891.3	909.9	942.5	969.5	979.7
50°	838.3	856.0	890.4	919.2	931.3
52.5°	784.3	802.9	837.4	868.1	881.1
55°	729.4	748.0	784.3	816.0	829.9
57.5°	673.6	692.2	729.4	762.0	778.7
60°	615.9	634.5	673.6	707.1	723.9
62.5°	556.4	575.9	615.9	650.4	668.0
65°	496.8	515.4	557.3	594.5	608.5
67.5°	437.3	455.9	496.8	534.1	550.8
70°	375.9	397.3	437.3	476.4	491.3
72.5°	311.7	335.9	375.9	416.8	431.7
75°	252.1	275.4	318.2	356.3	373.1
77.5°	193.5	218.6	258.7	297.7	314.5
80°	137.7	161.9	202.8	240.0	257.7
82.5°	87.5	108.9	149.8	183.3	196.3
85°	44.7	63.3	94.0	105.1	111.6
87.5°	13.0	22.3	33.5	41.9	46.5
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	14.36	16.02	14.72	16.33	16.65	15.09	16.75	15.46	17.07	17.38
	3H	16.13	17.63	16.50	17.96	18.32	17.17	18.68	17.55	19.00	19.36
	4H	16.75	18.17	17.14	18.51	18.89	18.04	19.46	18.44	19.81	20.18
	6H	17.16	18.47	17.57	18.84	19.23	18.78	20.10	19.19	20.46	20.85
	8H	17.26	18.52	17.68	18.91	19.30	19.08	20.34	19.50	20.73	21.12
	12H	17.31	18.51	17.74	18.90	19.32	19.27	20.48	19.70	20.86	21.29
4H	2H	15.13	16.55	15.52	16.89	17.27	15.70	17.12	16.10	17.47	17.84
	3H	17.12	18.31	17.53	18.71	19.11	18.01	19.21	18.42	19.60	20.00
	4H	17.86	18.94	18.29	19.36	19.79	19.03	20.11	19.46	20.53	20.96
	6H	18.39	19.34	18.84	19.78	20.23	19.94	20.88	20.39	21.32	21.78
	8H	18.53	19.42	18.99	19.86	20.33	20.30	21.19	20.76	21.63	22.10
	12H	18.61	19.41	19.09	19.89	20.36	20.56	21.36	21.04	21.83	22.30
8H	4H	18.31	19.20	18.77	19.64	20.10	19.33	20.22	19.79	20.66	21.12
	6H	18.97	19.71	19.46	20.20	20.67	20.38	21.13	20.88	21.61	22.09
	8H	19.18	19.84	19.69	20.35	20.83	20.86	21.52	21.36	22.03	22.51
	12H	19.32	19.91	19.82	20.39	20.95	21.21	21.80	21.71	22.29	22.85
12H	4H	18.39	19.19	18.87	19.66	20.13	19.35	20.15	19.83	20.63	21.10
	6H	19.09	19.76	19.60	20.27	20.75	20.44	21.10	20.94	21.61	22.09
	8H	19.37	19.96	19.88	20.45	21.01	20.97	21.56	21.48	22.05	22.61