

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: P1588642

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-47-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

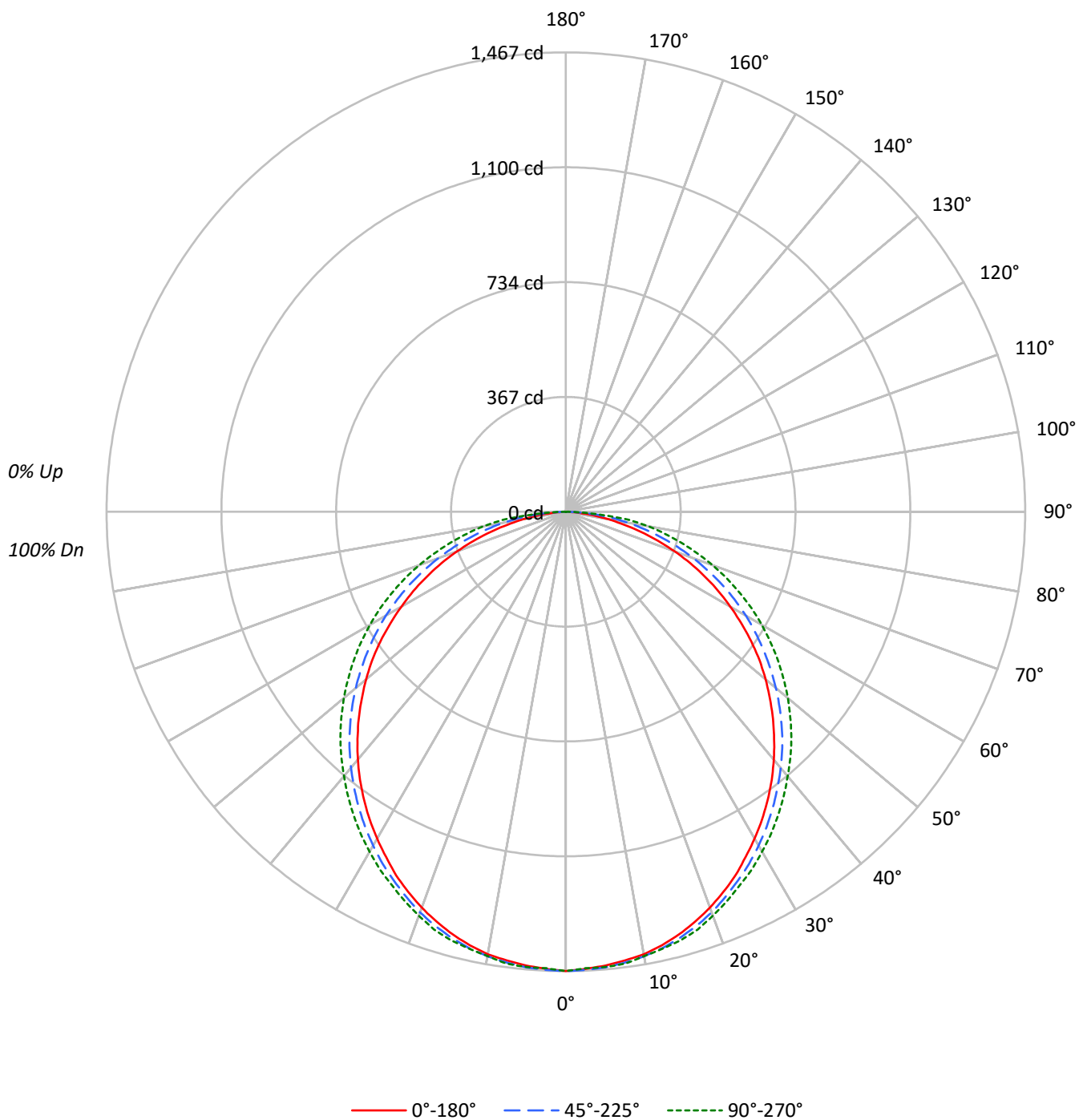
Lumens per Lamp: N/A
Luminaire Lumens: 4282.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	50	30	10
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	69		
3	89	79	70	64	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°	2246	2246	2246
5°	2236	2245	2243
10°	2231	2242	2240
15°	2215	2233	2247
20°	2193	2219	2237
25°	2166	2196	2223
30°	2132	2177	2217
35°	2101	2156	2210
40°	2066	2134	2204
45°	2027	2113	2206
50°	1984	2087	2205
55°	1932	2057	2208
60°	1859	2035	2213
65°	1774	1995	2220
70°	1654	1940	2230
75°	1474	1863	2252
80°	1218	1774	2362
85°	793	1601	2063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.2
10°-20°	397.2	9.3
20°-30°	599.0	14.0
30°-40°	721.5	16.8
40°-50°	753.5	17.6
50°-60°	692.0	16.2
60°-70°	545.0	12.7
70°-80°	334.4	7.8
80°-90°	100.6	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°	1134.9	26.5
0°-40°	1856.4	43.4
0°-60°	3301.9	77.1
0°-90°	4282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1454	1456	1460	1465	1459	138
15°	1397	1400	1408	1417	1417	394
25°	1282	1284	1300	1315	1315	590
35°	1124	1129	1153	1176	1182	703
45°	936	946	975	1009	1018	722
55°	724	737	770	814	827	646
65°	490	506	551	597	613	484
75°	249	269	315	365	380	264
85°	45	62	91	116	117	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.7	1466.7	1466.7	1466.7	1466.7
2.5°	1461.1	1463.9	1464.8	1465.8	1459.2
5°	1454.5	1456.4	1460.1	1464.8	1459.2
7.5°	1445.1	1447.0	1451.7	1458.2	1455.4
10°	1434.8	1435.7	1441.3	1446.0	1440.4
12.5°	1417.8	1420.7	1427.2	1431.0	1429.1
15°	1397.2	1400.0	1408.4	1416.9	1416.9
17.5°	1372.7	1376.5	1386.8	1398.1	1399.0
20°	1345.5	1348.3	1361.5	1372.7	1372.7
22.5°	1314.5	1318.2	1331.4	1343.6	1345.5
25°	1281.6	1284.4	1299.5	1315.4	1315.4
27.5°	1243.1	1248.7	1267.5	1283.5	1287.2
30°	1205.5	1210.2	1230.9	1250.6	1253.4
32.5°	1166.0	1171.7	1193.3	1214.9	1219.6
35°	1123.7	1129.4	1152.9	1176.4	1182.0
37.5°	1079.6	1086.2	1110.6	1137.8	1143.5
40°	1033.5	1041.1	1067.4	1096.5	1102.1
42.5°	984.7	995.0	1023.2	1053.3	1061.7
45°	935.8	946.2	975.3	1009.1	1018.5
47.5°	884.2	896.4	926.4	962.1	972.5
50°	832.5	844.7	875.7	914.2	925.5
52.5°	779.9	792.1	824.0	864.4	876.6
55°	723.5	736.6	770.5	813.7	826.8
57.5°	665.2	682.1	717.8	762.0	775.2
60°	607.0	623.9	664.3	707.5	722.5
62.5°	549.7	565.6	607.0	653.0	669.0
65°	489.5	506.4	550.6	596.6	612.6
67.5°	430.3	447.2	491.4	539.3	556.2
70°	369.3	388.1	433.2	481.1	498.0
72.5°	308.2	327.9	374.0	422.8	438.8
75°	249.0	268.7	314.8	364.6	380.5
77.5°	190.7	212.3	257.4	308.2	323.2
80°	138.1	158.8	201.1	250.9	267.8
82.5°	88.3	106.2	148.5	195.4	207.6
85°	45.1	62.0	91.1	115.6	117.4
87.5°	14.1	19.7	30.1	45.1	46.0
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	14.29	15.95	14.65	16.27	16.58	15.12	16.78	15.48	17.10	17.41
	3H	16.05	17.55	16.42	17.88	18.24	17.24	18.74	17.61	19.07	19.43
	4H	16.66	18.09	17.06	18.43	18.81	18.13	19.55	18.52	19.90	20.27
	6H	17.07	18.40	17.49	18.76	19.15	18.91	20.23	19.32	20.59	20.98
	8H	17.18	18.44	17.61	18.83	19.23	19.23	20.49	19.65	20.88	21.28
	12H	17.23	18.44	17.66	18.83	19.25	19.44	20.65	19.87	21.03	21.46
4H	2H	15.06	16.48	15.46	16.83	17.21	15.71	17.13	16.11	17.48	17.85
	3H	17.04	18.24	17.45	18.63	19.03	18.06	19.26	18.47	19.66	20.06
	4H	17.78	18.86	18.21	19.27	19.71	19.12	20.20	19.55	20.61	21.05
	6H	18.30	19.26	18.76	19.70	20.15	20.07	21.02	20.52	21.46	21.91
	8H	18.45	19.34	18.91	19.78	20.25	20.46	21.36	20.92	21.80	22.26
	12H	18.53	19.34	19.01	19.81	20.28	20.74	21.55	21.22	22.02	22.49
8H	4H	18.23	19.13	18.69	19.57	20.03	19.40	20.30	19.86	20.74	21.20
	6H	18.90	19.64	19.39	20.13	20.60	20.52	21.26	21.01	21.75	22.22
	8H	19.11	19.78	19.61	20.28	20.76	21.03	21.70	21.54	22.20	22.69
	12H	19.25	19.84	19.75	20.33	20.89	21.41	22.01	21.92	22.49	23.05
12H	4H	18.32	19.13	18.80	19.60	20.07	19.43	20.23	19.91	20.71	21.17
	6H	19.03	19.70	19.53	20.20	20.69	20.56	21.23	21.07	21.74	22.22
	8H	19.31	19.90	19.81	20.39	20.95	21.14	21.73	21.65	22.22	22.78