

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: P1588645

Luminaire Tested: 24CZSP-A-47-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-47-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

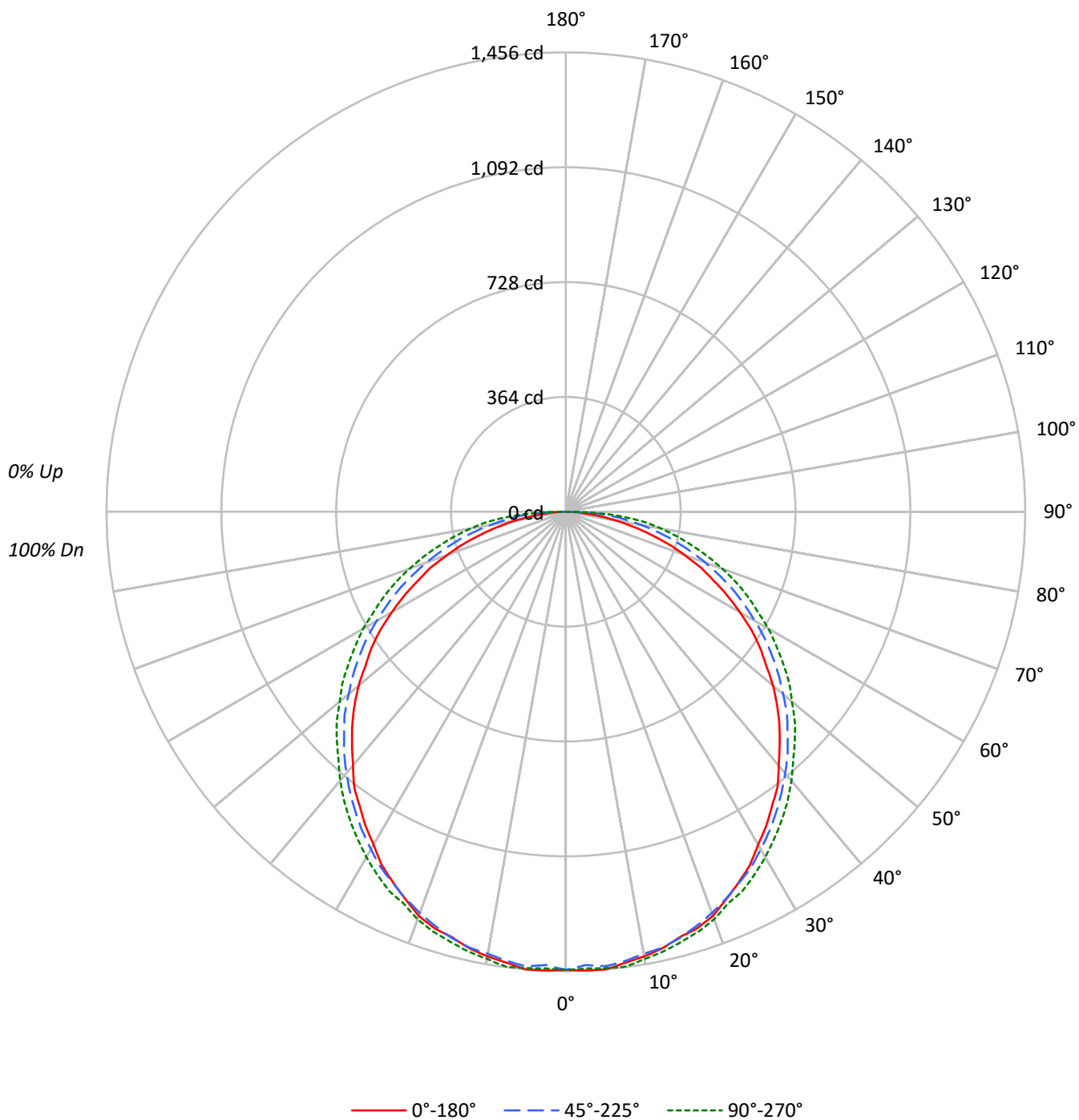
Lumens per Lamp: N/A
Luminaire Lumens: 4432.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82		
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56		
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48		
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36		
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2224	2224	2224
5°	2239	2223	2232
10°	2225	2212	2238
15°	2213	2217	2238
20°	2221	2206	2240
25°	2190	2194	2240
30°	2155	2185	2236
35°	2129	2173	2231
40°	2099	2163	2224
45°	2074	2152	2223
50°	2043	2142	2228
55°	2007	2134	2248
60°	1951	2120	2273
65°	1873	2119	2308
70°	1787	2106	2362
75°	1646	2110	2450
80°	1442	2153	2696
85°	1100	2481	3226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.1
10°-20°	396.3	8.9
20°-30°	602.0	13.6
30°-40°	729.3	16.5
40°-50°	767.2	17.3
50°-60°	713.4	16.1
60°-70°	574.4	13.0
70°-80°	372.1	8.4
80°-90°	139.5	3.1
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°	1136.2	25.6
0°-40°	1865.4	42.1
0°-60°	3346.0	75.5
0°-90°	4432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1456	1454	1446	1454	1452	138
15°	1396	1401	1398	1415	1412	395
25°	1296	1295	1298	1320	1326	597
35°	1139	1147	1162	1182	1193	714
45°	957	970	994	1015	1026	738
55°	752	771	799	831	842	670
65°	517	540	585	620	637	514
75°	278	306	357	398	414	296
85°	63	92	141	176	184	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1455.2	1455.2	1438.2	1456.3	1448.8
5°	1456.3	1454.1	1445.7	1454.1	1452.0
7.5°	1441.4	1443.5	1436.1	1446.7	1454.1
10°	1430.8	1432.9	1422.3	1439.3	1439.3
12.5°	1417.0	1419.1	1414.9	1430.8	1427.6
15°	1395.8	1401.1	1397.9	1414.9	1411.7
17.5°	1384.1	1379.8	1376.7	1389.4	1395.8
20°	1362.9	1353.3	1353.3	1370.3	1374.5
22.5°	1328.9	1325.7	1326.8	1348.0	1343.8
25°	1296.0	1294.9	1298.1	1320.4	1325.7
27.5°	1263.1	1261.0	1270.5	1291.7	1296.0
30°	1218.5	1222.8	1235.5	1258.8	1264.2
32.5°	1181.4	1188.8	1200.5	1222.8	1229.1
35°	1138.9	1147.4	1162.3	1182.4	1193.0
37.5°	1101.8	1107.1	1123.0	1142.1	1154.8
40°	1049.7	1063.5	1081.6	1109.2	1112.4
42.5°	1003.0	1016.8	1040.2	1069.9	1066.7
45°	957.4	970.1	993.5	1014.7	1026.4
47.5°	908.6	920.3	951.0	976.5	985.0
50°	857.6	872.5	899.0	925.6	935.1
52.5°	800.3	816.2	850.2	878.9	892.7
55°	751.5	770.6	799.2	831.1	841.7
57.5°	697.4	713.3	748.3	780.1	790.8
60°	636.9	656.0	692.0	726.0	741.9
62.5°	578.5	599.7	637.9	672.9	685.7
65°	516.9	540.3	584.8	619.9	636.9
67.5°	463.8	482.9	526.5	565.7	583.8
70°	399.1	424.6	470.2	513.7	527.5
72.5°	341.8	364.1	411.8	455.3	472.3
75°	278.1	305.7	356.6	398.0	414.0
77.5°	219.7	248.4	299.3	342.8	360.9
80°	163.5	191.1	244.1	288.7	305.7
82.5°	110.4	138.0	191.1	234.6	253.7
85°	62.6	92.3	141.2	176.2	183.6
87.5°	27.6	53.1	79.6	95.5	101.9
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	14.46	16.14	14.83	16.46	16.77	15.14	16.82	15.50	17.13	17.45
	3H	16.32	17.84	16.69	18.17	18.53	17.35	18.88	17.73	19.21	19.57
	4H	17.00	18.45	17.40	18.79	19.17	18.32	19.76	18.71	20.11	20.48
	6H	17.49	18.84	17.90	19.20	19.59	19.21	20.55	19.62	20.91	21.30
	8H	17.64	18.93	18.06	19.31	19.71	19.61	20.90	20.04	21.29	21.68
	12H	17.73	18.96	18.16	19.34	19.77	19.97	21.20	20.40	21.59	22.01
4H	2H	15.25	16.70	15.65	17.05	17.42	15.77	17.22	16.17	17.57	17.94
	3H	17.34	18.56	17.75	18.96	19.36	18.23	19.46	18.64	19.85	20.25
	4H	18.16	19.27	18.59	19.68	20.12	19.36	20.47	19.79	20.88	21.32
	6H	18.79	19.76	19.24	20.20	20.65	20.43	21.41	20.88	21.85	22.30
	8H	18.98	19.90	19.44	20.34	20.80	20.92	21.84	21.38	22.28	22.74
	12H	19.12	19.95	19.60	20.42	20.89	21.38	22.20	21.85	22.68	23.14
8H	4H	18.67	19.59	19.13	20.03	20.49	19.71	20.62	20.16	21.06	21.52
	6H	19.46	20.22	19.95	20.71	21.18	20.96	21.72	21.45	22.21	22.68
	8H	19.74	20.43	20.25	20.93	21.42	21.58	22.27	22.08	22.77	23.26
	12H	19.96	20.57	20.46	21.06	21.62	22.19	22.80	22.69	23.29	23.85
12H	4H	18.78	19.60	19.26	20.08	20.55	19.74	20.57	20.22	21.04	21.51
	6H	19.62	20.31	20.13	20.82	21.30	21.03	21.72	21.53	22.22	22.71
	8H	19.99	20.61	20.50	21.09	21.65	21.73	22.35	22.24	22.84	23.39