

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: P1588615

Luminaire Tested: 24CZSP-A-43HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-43HE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

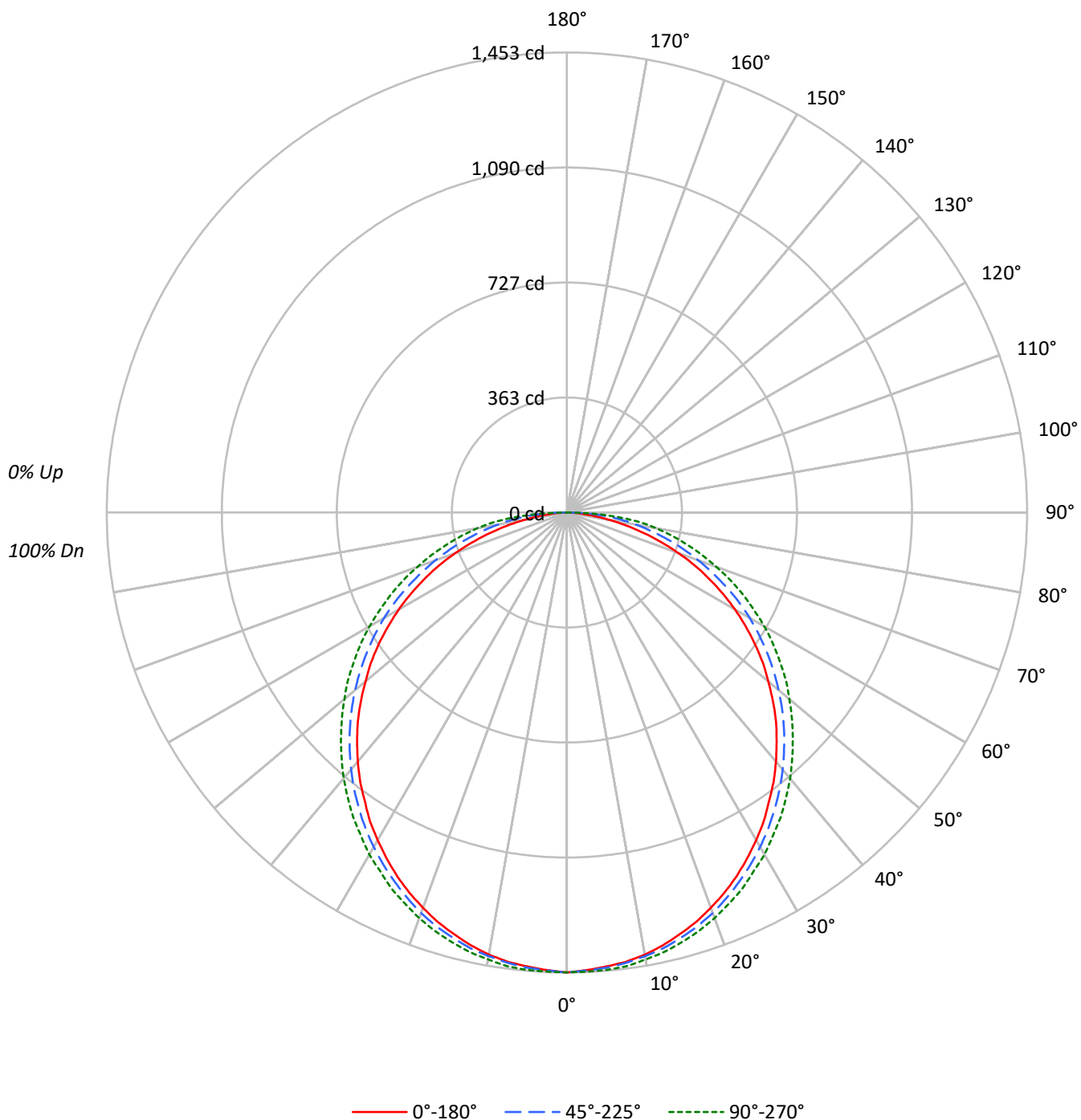
Lumens per Lamp: N/A
Luminaire Lumens: 4309.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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
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	101	97	93	96	93	90	92	90	87	89	87	85	82		
2	98	89	82	76	95	87	81	75	84	78	73	81	76	72	77	74	70	68		
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57		
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36		
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26		
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2225	2225	2225
5°	2213	2219	2230
10°	2205	2213	2229
15°	2186	2205	2228
20°	2165	2195	2222
25°	2142	2175	2215
30°	2113	2158	2206
35°	2080	2138	2199
40°	2053	2120	2191
45°	2023	2100	2185
50°	1978	2080	2185
55°	1936	2060	2191
60°	1878	2042	2206
65°	1798	2010	2222
70°	1682	1976	2248
75°	1496	1948	2322
80°	1230	1956	2524
85°	838	2179	2787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.2
10°-20°	393.6	9.1
20°-30°	595.2	13.8
30°-40°	718.2	16.7
40°-50°	751.0	17.4
50°-60°	692.9	16.1
60°-70°	551.0	12.8
70°-80°	347.7	8.1
80°-90°	121.9	2.8
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°	1126.3	26.1
0°-40°	1844.5	42.8
0°-60°	3288.4	76.3
0°-90°	4309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1440	1450	1443	1447	1450	137
15°	1379	1394	1391	1401	1405	389
25°	1268	1287	1287	1304	1311	584
35°	1113	1136	1144	1166	1176	697
45°	934	954	970	998	1009	719
55°	725	747	772	809	820	648
65°	496	519	555	601	613	490
75°	253	282	329	378	392	268
85°	48	79	124	154	159	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1446.6	1456.2	1447.8	1452.6	1451.4
5°	1439.5	1450.2	1443.0	1446.6	1450.2
7.5°	1431.1	1443.0	1434.7	1440.7	1445.4
10°	1418.0	1429.9	1422.8	1429.9	1433.5
12.5°	1400.1	1414.4	1409.6	1418.0	1421.6
15°	1378.6	1394.1	1390.6	1401.3	1404.9
17.5°	1356.0	1372.7	1370.3	1382.2	1385.8
20°	1328.5	1347.6	1346.4	1358.4	1363.1
22.5°	1299.9	1319.0	1317.8	1330.9	1336.9
25°	1267.7	1286.8	1286.8	1303.5	1310.7
27.5°	1231.9	1253.4	1254.6	1271.3	1277.3
30°	1195.0	1216.4	1220.0	1237.9	1247.5
32.5°	1156.8	1177.1	1183.1	1203.3	1210.5
35°	1112.7	1136.5	1143.7	1166.4	1175.9
37.5°	1072.1	1093.6	1103.1	1127.0	1136.5
40°	1026.8	1049.5	1060.2	1086.5	1096.0
42.5°	980.3	1003.0	1014.9	1043.5	1053.1
45°	933.8	954.1	969.6	998.2	1008.9
47.5°	882.5	905.2	921.9	952.9	963.6
50°	830.0	853.9	873.0	906.4	917.1
52.5°	780.0	801.4	822.9	859.9	871.8
55°	725.1	746.6	771.6	808.6	820.5
57.5°	669.0	690.5	719.1	758.5	771.6
60°	613.0	634.5	666.7	707.2	720.3
62.5°	554.6	576.0	611.8	653.5	665.5
65°	496.1	518.8	554.6	601.1	613.0
67.5°	436.5	459.1	497.3	546.2	559.3
70°	375.7	400.7	441.3	490.2	502.1
72.5°	312.5	341.1	386.4	434.1	448.4
75°	252.8	281.5	329.2	378.1	392.4
77.5°	194.4	226.6	274.3	325.6	341.1
80°	139.5	171.7	221.8	271.9	286.2
82.5°	89.4	122.8	172.9	220.6	232.6
85°	47.7	78.7	124.0	153.8	158.6
87.5°	15.5	40.5	56.1	73.9	75.1
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	14.34	16.01	14.70	16.32	16.64	15.06	16.73	15.42	17.04	17.36
	3H	16.12	17.64	16.50	17.97	18.32	17.22	18.74	17.60	19.07	19.43
	4H	16.75	18.19	17.15	18.53	18.91	18.16	19.59	18.55	19.94	20.31
	6H	17.18	18.51	17.59	18.87	19.26	19.02	20.35	19.43	20.71	21.10
	8H	17.29	18.56	17.71	18.95	19.35	19.39	20.67	19.82	21.06	21.45
	12H	17.35	18.57	17.78	18.95	19.38	19.70	20.93	20.13	21.31	21.73
4H	2H	15.10	16.53	15.50	16.88	17.25	15.66	17.09	16.06	17.44	17.81
	3H	17.12	18.33	17.53	18.73	19.13	18.07	19.28	18.48	19.68	20.08
	4H	17.88	18.98	18.32	19.39	19.83	19.18	20.27	19.61	20.69	21.12
	6H	18.44	19.40	18.89	19.84	20.30	20.22	21.18	20.67	21.62	22.07
	8H	18.60	19.50	19.06	19.94	20.41	20.68	21.58	21.14	22.03	22.49
	12H	18.70	19.51	19.17	19.98	20.45	21.08	21.89	21.56	22.37	22.83
8H	4H	18.37	19.28	18.83	19.72	20.18	19.49	20.40	19.95	20.84	21.30
	6H	19.08	19.84	19.57	20.32	20.80	20.71	21.47	21.20	21.95	22.43
	8H	19.32	20.00	19.83	20.51	20.99	21.31	21.99	21.81	22.49	22.98
	12H	19.49	20.10	20.00	20.59	21.14	21.85	22.45	22.35	22.94	23.50
12H	4H	18.48	19.29	18.95	19.77	20.23	19.52	20.34	20.00	20.81	21.28
	6H	19.24	19.92	19.75	20.43	20.91	20.77	21.46	21.28	21.96	22.44
	8H	19.57	20.17	20.07	20.66	21.22	21.45	22.05	21.95	22.54	23.10