

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: P1588705

Luminaire Tested: 24CZSP-A-52HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588705
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-52HE-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

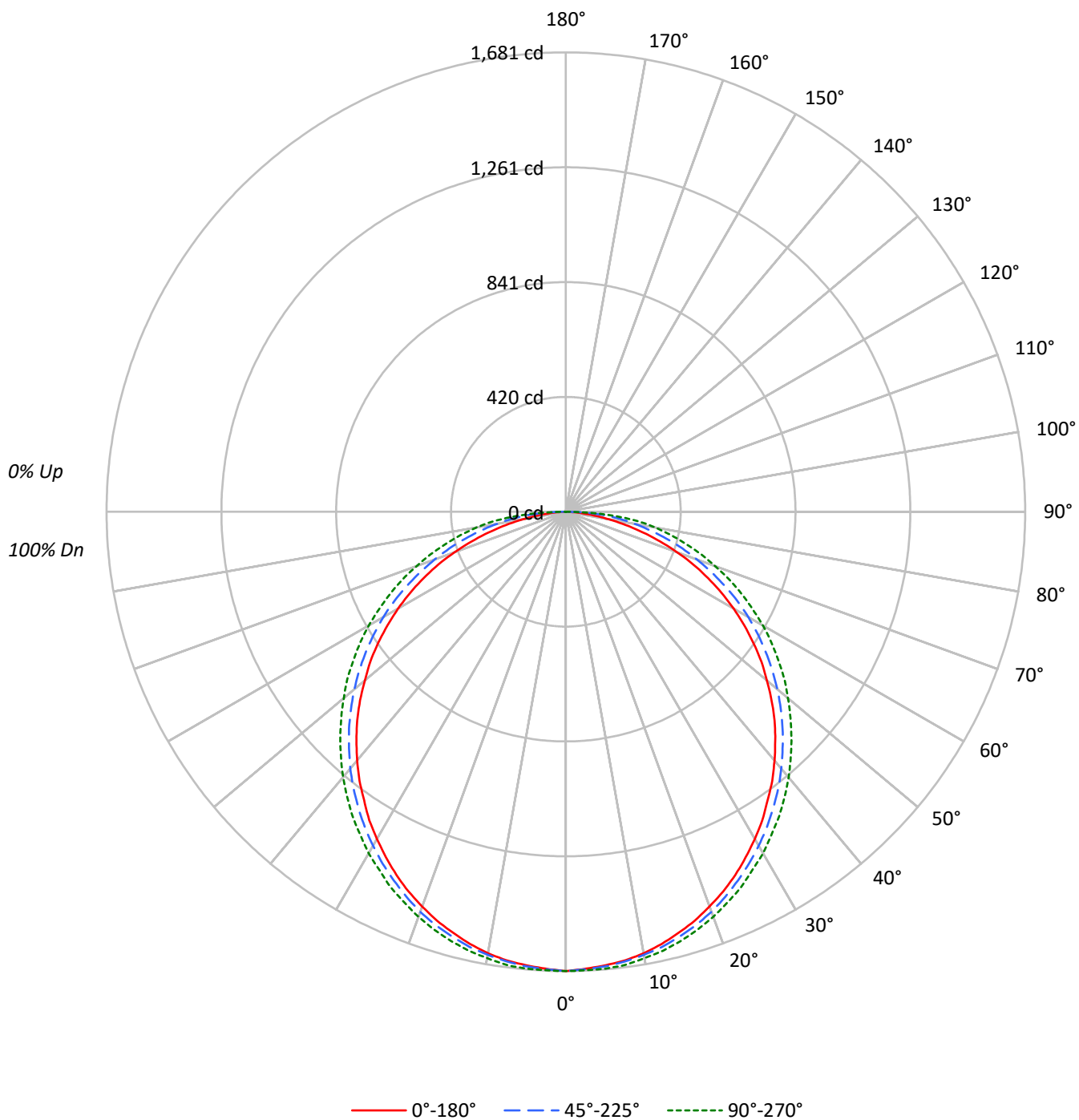
Lumens per Lamp: N/A
Luminaire Lumens: 4986.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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
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°	2574	2574	2574
5°	2561	2567	2580
10°	2552	2560	2580
15°	2529	2551	2578
20°	2506	2539	2571
25°	2479	2516	2563
30°	2445	2497	2553
35°	2407	2474	2544
40°	2375	2453	2536
45°	2340	2430	2529
50°	2289	2407	2529
55°	2240	2384	2535
60°	2173	2363	2553
65°	2081	2326	2571
70°	1947	2287	2602
75°	1732	2254	2687
80°	1424	2264	2921
85°	970	2522	3225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3225 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.2
10°-20°	455.4	9.1
20°-30°	688.7	13.8
30°-40°	831.1	16.7
40°-50°	869.0	17.4
50°-60°	801.8	16.1
60°-70°	637.5	12.8
70°-80°	402.4	8.1
80°-90°	141.1	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°	1303.2	26.1
0°-40°	2134.3	42.8
0°-60°	3805.1	76.3
0°-90°	4986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1666	1678	1670	1674	1678	158
15°	1595	1613	1609	1622	1626	450
25°	1467	1489	1489	1508	1517	676
35°	1288	1315	1323	1350	1361	807
45°	1080	1104	1122	1155	1168	832
55°	839	864	893	936	949	749
65°	574	600	642	696	709	567
75°	293	326	381	437	454	310
85°	55	91	144	178	184	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1673.9	1684.9	1675.3	1680.8	1679.4
5°	1665.6	1678.0	1669.8	1673.9	1678.0
7.5°	1656.0	1669.8	1660.1	1667.0	1672.5
10°	1640.8	1654.6	1646.3	1654.6	1658.7
12.5°	1620.1	1636.6	1631.1	1640.8	1644.9
15°	1595.2	1613.2	1609.0	1621.5	1625.6
17.5°	1569.0	1588.3	1585.6	1599.4	1603.5
20°	1537.3	1559.4	1558.0	1571.8	1577.3
22.5°	1504.2	1526.2	1524.9	1540.0	1546.9
25°	1466.9	1489.0	1489.0	1508.3	1516.6
27.5°	1425.5	1450.3	1451.7	1471.0	1477.9
30°	1382.7	1407.6	1411.7	1432.4	1443.4
32.5°	1338.6	1362.0	1368.9	1392.4	1400.7
35°	1287.5	1315.1	1323.4	1349.6	1360.6
37.5°	1240.6	1265.4	1276.5	1304.1	1315.1
40°	1188.1	1214.4	1226.8	1257.1	1268.2
42.5°	1134.3	1160.6	1174.4	1207.5	1218.5
45°	1080.5	1104.0	1121.9	1155.0	1167.5
47.5°	1021.2	1047.4	1066.7	1102.6	1115.0
50°	960.5	988.1	1010.1	1048.8	1061.2
52.5°	902.5	927.3	952.2	995.0	1008.8
55°	839.0	863.9	892.8	935.6	949.4
57.5°	774.2	799.0	832.1	877.7	892.8
60°	709.3	734.1	771.4	818.3	833.5
62.5°	641.7	666.5	707.9	756.2	770.0
65°	574.1	600.3	641.7	695.5	709.3
67.5°	505.1	531.3	575.4	632.0	647.2
70°	434.7	463.7	510.6	567.2	581.0
72.5°	361.6	394.7	447.1	502.3	518.9
75°	292.6	325.7	380.9	437.4	454.0
77.5°	224.9	262.2	317.4	376.7	394.7
80°	161.5	198.7	256.7	314.6	331.2
82.5°	103.5	142.1	200.1	255.3	269.1
85°	55.2	91.1	143.5	178.0	183.5
87.5°	17.9	46.9	64.9	85.6	86.9
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	14.84	16.51	15.21	16.83	17.14	15.56	17.23	15.93	17.55	17.86
	3H	16.63	18.15	17.01	18.47	18.83	17.73	19.25	18.11	19.57	19.93
	4H	17.26	18.69	17.66	19.04	19.41	18.66	20.10	19.06	20.44	20.82
	6H	17.68	19.01	18.09	19.38	19.77	19.52	20.85	19.93	21.22	21.61
	8H	17.80	19.07	18.22	19.46	19.85	19.90	21.17	20.32	21.56	21.96
	12H	17.85	19.08	18.28	19.46	19.88	20.21	21.43	20.64	21.81	22.24
4H	2H	15.61	17.04	16.00	17.39	17.76	16.17	17.60	16.56	17.95	18.32
	3H	17.63	18.84	18.04	19.23	19.63	18.58	19.79	18.99	20.18	20.58
	4H	18.39	19.49	18.82	19.90	20.34	19.68	20.78	20.11	21.19	21.63
	6H	18.95	19.91	19.40	20.35	20.80	20.72	21.69	21.18	22.13	22.58
	8H	19.10	20.01	19.56	20.45	20.91	21.19	22.09	21.65	22.53	23.00
	12H	19.20	20.02	19.68	20.49	20.96	21.58	22.40	22.06	22.87	23.34
8H	4H	18.88	19.78	19.34	20.22	20.69	20.00	20.90	20.46	21.34	21.81
	6H	19.59	20.34	20.08	20.83	21.30	21.22	21.97	21.71	22.46	22.93
	8H	19.83	20.51	20.34	21.01	21.50	21.81	22.49	22.32	23.00	23.48
	12H	20.00	20.60	20.51	21.09	21.65	22.36	22.96	22.86	23.45	24.01
12H	4H	18.98	19.80	19.46	20.27	20.74	20.03	20.85	20.51	21.32	21.79
	6H	19.75	20.43	20.26	20.93	21.42	21.28	21.96	21.79	22.47	22.95
	8H	20.07	20.68	20.58	21.17	21.72	21.96	22.56	22.46	23.05	23.61