

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: P1588345

Luminaire Tested: 24CZSP-52-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588345
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-52-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

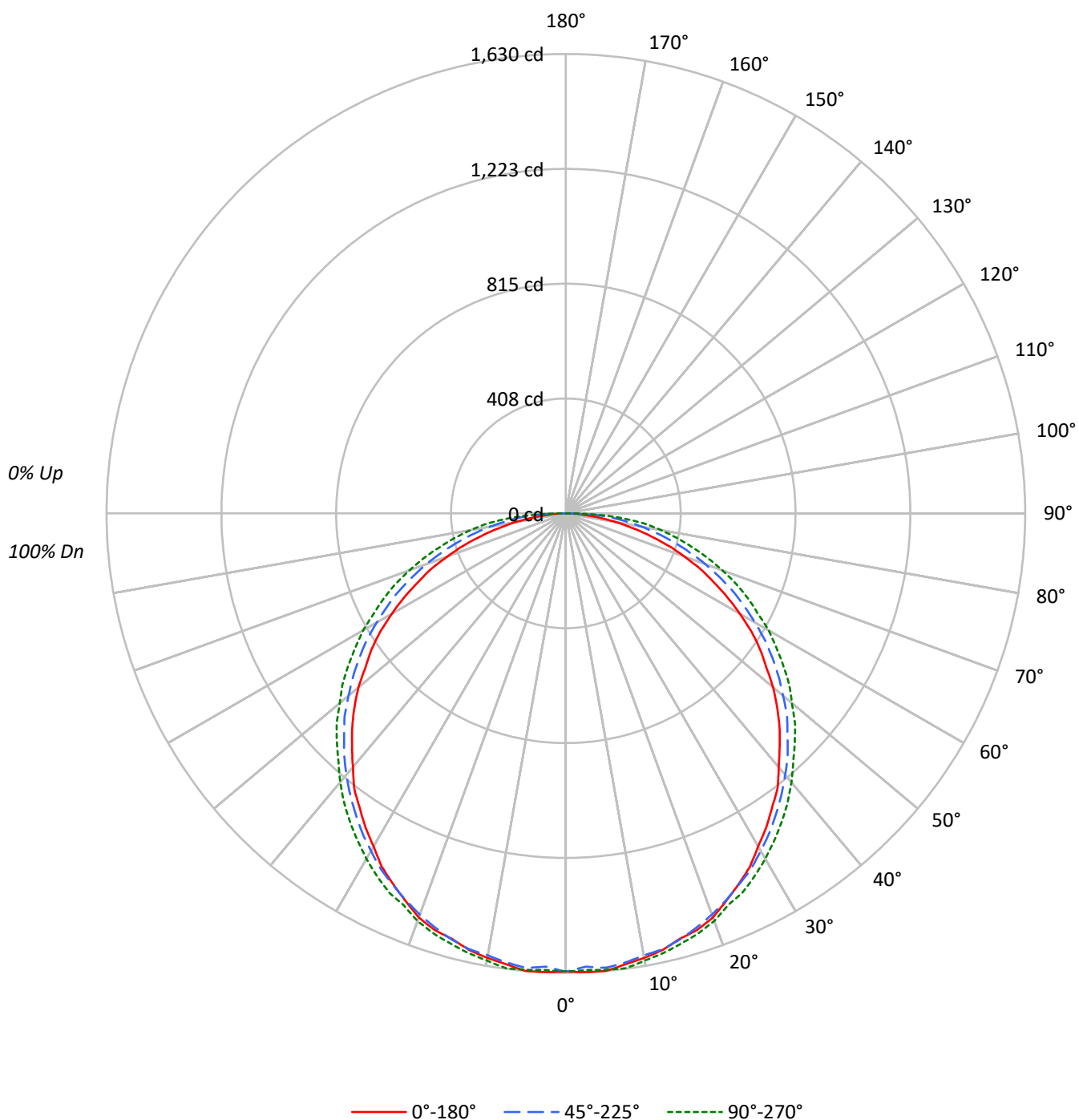
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4962.0 lumens
Efficiency: N/A
Efficacy: 135.2 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): 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			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	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°	2490	2490	2490
5°	2507	2488	2499
10°	2491	2477	2506
15°	2478	2482	2506
20°	2487	2469	2508
25°	2452	2456	2508
30°	2413	2446	2503
35°	2384	2433	2497
40°	2350	2421	2490
45°	2322	2409	2489
50°	2288	2398	2495
55°	2247	2389	2516
60°	2184	2373	2545
65°	2097	2373	2584
70°	2001	2357	2645
75°	1842	2363	2743
80°	1614	2411	3018
85°	1232	2778	3613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.1
10°-20°	443.7	8.9
20°-30°	674.0	13.6
30°-40°	816.5	16.5
40°-50°	859.0	17.3
50°-60°	798.7	16.1
60°-70°	643.1	13.0
70°-80°	416.6	8.4
80°-90°	156.2	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°	1272.1	25.6
0°-40°	2088.5	42.1
0°-60°	3746.1	75.5
0°-90°	4962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1630	1628	1618	1628	1626	154
15°	1563	1569	1565	1584	1580	443
25°	1451	1450	1453	1478	1484	669
35°	1275	1285	1301	1324	1336	799
45°	1072	1086	1112	1136	1149	826
55°	841	863	895	930	942	750
65°	579	605	655	694	713	575
75°	311	342	399	446	464	331
85°	70	103	158	197	206	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1629.2	1629.2	1610.2	1630.4	1622.1
5°	1630.4	1628.0	1618.5	1628.0	1625.7
7.5°	1613.8	1616.2	1607.8	1619.7	1628.0
10°	1601.9	1604.3	1592.4	1611.4	1611.4
12.5°	1586.4	1588.8	1584.1	1601.9	1598.3
15°	1562.7	1568.6	1565.1	1584.1	1580.5
17.5°	1549.6	1544.9	1541.3	1555.6	1562.7
20°	1525.8	1515.1	1515.1	1534.2	1538.9
22.5°	1487.8	1484.2	1485.4	1509.2	1504.5
25°	1451.0	1449.8	1453.4	1478.3	1484.2
27.5°	1414.1	1411.8	1422.5	1446.2	1451.0
30°	1364.2	1369.0	1383.2	1409.4	1415.3
32.5°	1322.6	1331.0	1344.0	1369.0	1376.1
35°	1275.1	1284.6	1301.2	1323.8	1335.7
37.5°	1233.5	1239.4	1257.3	1278.7	1292.9
40°	1175.3	1190.7	1210.9	1241.8	1245.4
42.5°	1123.0	1138.4	1164.6	1197.9	1194.3
45°	1071.9	1086.2	1112.3	1136.1	1149.1
47.5°	1017.2	1030.3	1064.8	1093.3	1102.8
50°	960.2	976.8	1006.5	1036.2	1046.9
52.5°	896.0	913.8	951.9	984.0	999.4
55°	841.4	862.7	894.8	930.5	942.4
57.5°	780.7	798.6	837.8	873.4	885.3
60°	713.0	734.4	774.8	812.8	830.7
62.5°	647.7	671.4	714.2	753.4	767.7
65°	578.7	604.9	654.8	694.0	713.0
67.5°	519.3	540.7	589.4	633.4	653.6
70°	446.8	475.3	526.4	575.2	590.6
72.5°	382.6	407.6	461.1	509.8	528.8
75°	311.3	342.2	399.3	445.6	463.5
77.5°	246.0	278.1	335.1	383.8	404.0
80°	183.0	213.9	273.3	323.2	342.2
82.5°	123.6	154.5	213.9	262.6	284.0
85°	70.1	103.4	158.1	197.3	205.6
87.5°	30.9	59.4	89.1	107.0	114.1
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	14.85	16.53	15.22	16.85	17.16	15.53	17.21	15.89	17.52	17.84
	3H	16.71	18.24	17.08	18.56	18.92	17.75	19.27	18.12	19.60	19.96
	4H	17.39	18.84	17.79	19.19	19.56	18.71	20.15	19.11	20.50	20.87
	6H	17.89	19.23	18.30	19.59	19.98	19.60	20.94	20.01	21.31	21.70
	8H	18.03	19.32	18.46	19.71	20.10	20.00	21.29	20.43	21.68	22.08
	12H	18.12	19.36	18.55	19.74	20.16	20.36	21.60	20.79	21.98	22.41
4H	2H	15.65	17.09	16.04	17.44	17.81	16.17	17.61	16.56	17.96	18.33
	3H	17.73	18.96	18.14	19.35	19.75	18.63	19.85	19.04	20.24	20.64
	4H	18.55	19.66	18.98	20.08	20.51	19.76	20.87	20.19	21.28	21.71
	6H	19.18	20.16	19.63	20.59	21.05	20.83	21.80	21.28	22.24	22.69
	8H	19.38	20.29	19.83	20.73	21.20	21.32	22.23	21.77	22.67	23.14
	12H	19.51	20.34	19.99	20.81	21.28	21.77	22.59	22.25	23.07	23.54
8H	4H	19.06	19.98	19.52	20.42	20.88	20.10	21.01	20.56	21.45	21.92
	6H	19.85	20.62	20.34	21.10	21.57	21.35	22.12	21.84	22.60	23.07
	8H	20.13	20.82	20.64	21.33	21.81	21.97	22.66	22.48	23.16	23.65
	12H	20.35	20.96	20.85	21.45	22.01	22.58	23.19	23.09	23.68	24.24
12H	4H	19.17	20.00	19.65	20.47	20.94	20.14	20.96	20.61	21.44	21.90
	6H	20.01	20.71	20.52	21.21	21.69	21.42	22.11	21.93	22.62	23.10
	8H	20.38	21.00	20.89	21.49	22.04	22.13	22.74	22.63	23.23	23.79