

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: P1588335

Luminaire Tested: 24CZSP-52-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588335
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

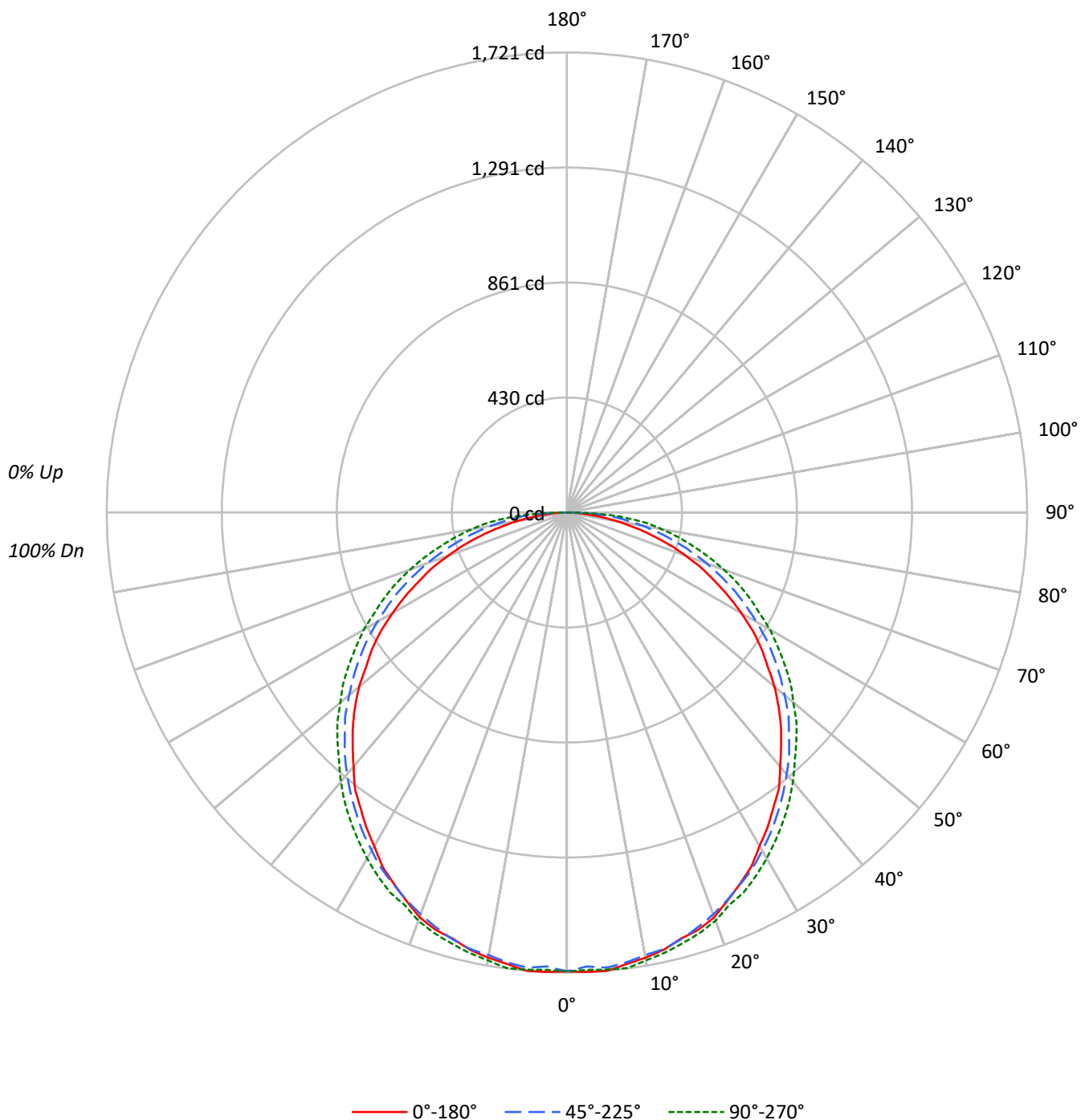
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239.0 lumens
Efficiency: N/A
Efficacy: 142.8 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°	2629	2629	2629
5°	2647	2627	2639
10°	2630	2615	2646
15°	2616	2620	2646
20°	2626	2607	2648
25°	2589	2593	2648
30°	2547	2583	2643
35°	2517	2569	2637
40°	2481	2556	2629
45°	2451	2544	2628
50°	2416	2532	2634
55°	2372	2523	2657
60°	2306	2506	2686
65°	2214	2505	2728
70°	2113	2489	2793
75°	1945	2495	2896
80°	1704	2546	3188
85°	1300	2933	3815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.1
10°-20°	468.5	8.9
20°-30°	711.6	13.6
30°-40°	862.0	16.5
40°-50°	906.9	17.3
50°-60°	843.3	16.1
60°-70°	679.0	13.0
70°-80°	439.8	8.4
80°-90°	164.9	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°	1343.1	25.6
0°-40°	2205.1	42.1
0°-60°	3955.3	75.5
0°-90°	5239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1721	1719	1709	1719	1716	163
15°	1650	1656	1652	1672	1669	467
25°	1532	1531	1534	1561	1567	706
35°	1346	1356	1374	1398	1410	843
45°	1132	1147	1174	1200	1213	872
55°	888	911	945	982	995	792
65°	611	639	691	733	753	608
75°	329	361	422	470	489	349
85°	74	109	167	208	217	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.4	1716.4	1716.4	1716.4	1716.4
2.5°	1720.2	1720.2	1700.1	1721.4	1712.7
5°	1721.4	1718.9	1708.9	1718.9	1716.4
7.5°	1703.9	1706.4	1697.6	1710.1	1718.9
10°	1691.3	1693.8	1681.3	1701.4	1701.4
12.5°	1675.0	1677.5	1672.5	1691.3	1687.6
15°	1649.9	1656.2	1652.4	1672.5	1668.7
17.5°	1636.1	1631.1	1627.3	1642.4	1649.9
20°	1611.0	1599.7	1599.7	1619.8	1624.8
22.5°	1570.9	1567.1	1568.4	1593.5	1588.4
25°	1532.0	1530.7	1534.5	1560.8	1567.1
27.5°	1493.1	1490.6	1501.9	1527.0	1532.0
30°	1440.4	1445.4	1460.5	1488.1	1494.3
32.5°	1396.5	1405.3	1419.1	1445.4	1452.9
35°	1346.3	1356.3	1373.9	1397.7	1410.3
37.5°	1302.4	1308.6	1327.5	1350.0	1365.1
40°	1240.9	1257.2	1278.5	1311.2	1314.9
42.5°	1185.7	1202.0	1229.6	1264.7	1261.0
45°	1131.7	1146.8	1174.4	1199.5	1213.3
47.5°	1074.0	1087.8	1124.2	1154.3	1164.4
50°	1013.8	1031.4	1062.7	1094.1	1105.4
52.5°	946.0	964.9	1005.0	1038.9	1055.2
55°	888.3	910.9	944.8	982.4	995.0
57.5°	824.3	843.2	884.6	922.2	934.7
60°	752.8	775.4	818.1	858.2	877.0
62.5°	683.8	708.9	754.1	795.5	810.5
65°	611.0	638.6	691.3	732.7	752.8
67.5°	548.3	570.9	622.3	668.7	690.1
70°	471.8	501.9	555.8	607.3	623.6
72.5°	404.0	430.4	486.8	538.3	558.3
75°	328.7	361.4	421.6	470.5	489.3
77.5°	259.7	293.6	353.8	405.3	426.6
80°	193.2	225.8	288.6	341.3	361.4
82.5°	130.5	163.1	225.8	277.3	299.9
85°	74.0	109.2	166.9	208.3	217.1
87.5°	32.6	62.7	94.1	112.9	120.5
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	15.04	16.72	15.41	17.04	17.35	15.72	17.40	16.08	17.71	18.03
	3H	16.90	18.43	17.27	18.75	19.11	17.93	19.46	18.31	19.79	20.15
	4H	17.58	19.03	17.98	19.37	19.75	18.90	20.34	19.30	20.69	21.06
	6H	18.08	19.42	18.49	19.78	20.17	19.79	21.13	20.20	21.50	21.89
	8H	18.22	19.51	18.65	19.90	20.29	20.19	21.48	20.62	21.87	22.26
	12H	18.31	19.54	18.74	19.93	20.35	20.55	21.79	20.98	22.17	22.60
4H	2H	15.84	17.28	16.23	17.63	18.00	16.36	17.80	16.75	18.15	18.52
	3H	17.92	19.14	18.33	19.54	19.94	18.82	20.04	19.22	20.43	20.83
	4H	18.74	19.85	19.17	20.27	20.70	19.94	21.05	20.37	21.47	21.90
	6H	19.37	20.34	19.82	20.78	21.24	21.01	21.99	21.47	22.43	22.88
	8H	19.57	20.48	20.02	20.92	21.39	21.50	22.42	21.96	22.86	23.32
	12H	19.70	20.53	20.18	21.00	21.47	21.96	22.78	22.44	23.26	23.73
8H	4H	19.25	20.17	19.71	20.61	21.07	20.29	21.20	20.74	21.64	22.11
	6H	20.04	20.80	20.53	21.29	21.76	21.54	22.30	22.03	22.79	23.26
	8H	20.32	21.01	20.83	21.51	22.00	22.16	22.85	22.67	23.35	23.84
	12H	20.54	21.15	21.04	21.64	22.20	22.77	23.38	23.28	23.87	24.43
12H	4H	19.36	20.19	19.84	20.66	21.13	20.33	21.15	20.80	21.62	22.09
	6H	20.20	20.90	20.71	21.40	21.88	21.61	22.30	22.12	22.81	23.29
	8H	20.57	21.19	21.08	21.68	22.23	22.32	22.93	22.82	23.42	23.98