

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: P1588355

Luminaire Tested: 24CZSP-52HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588355
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-52HE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

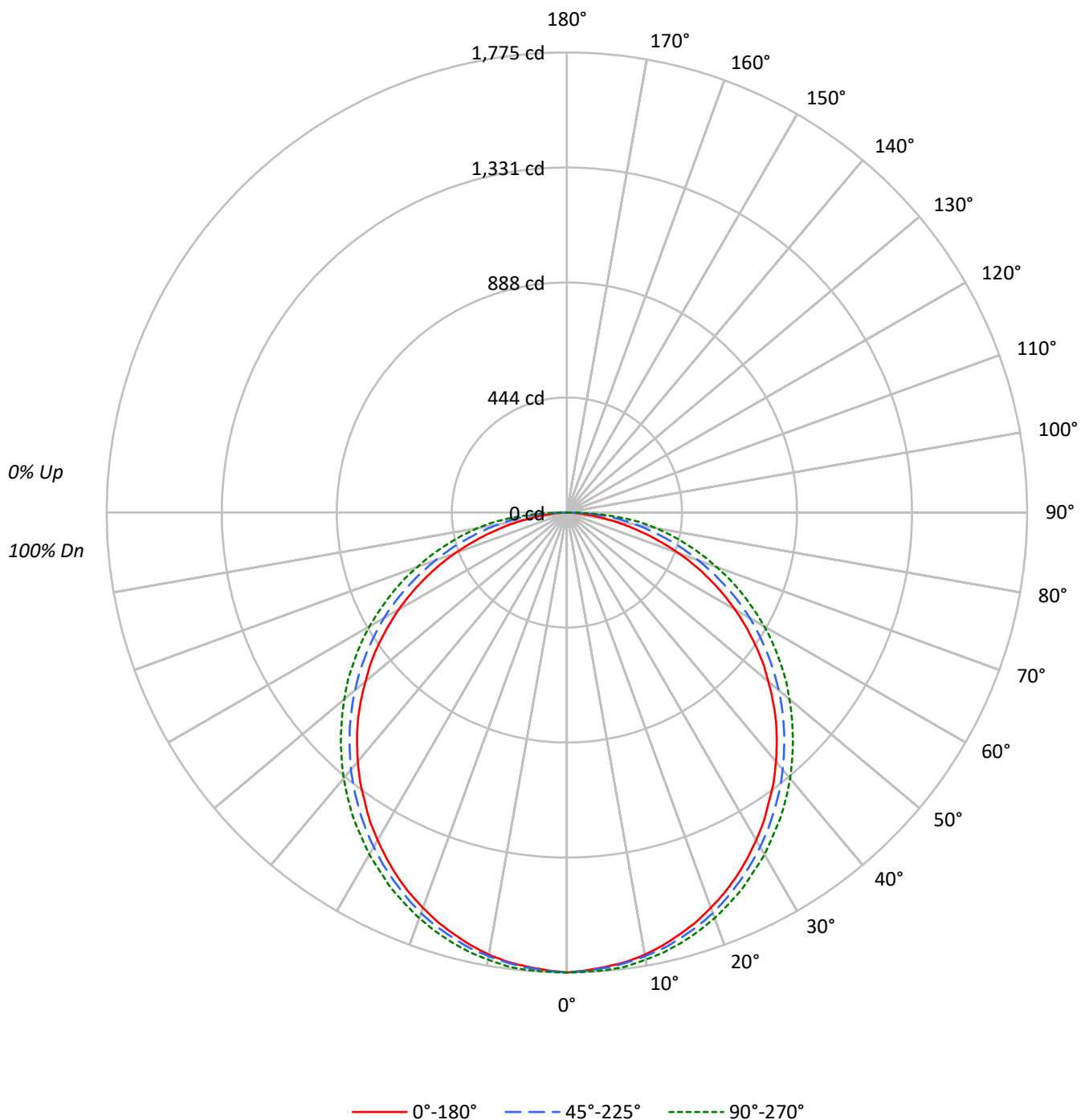
Lumens per Lamp: N/A
Luminaire Lumens: 5265.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	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°	2718	2718	2718
5°	2704	2711	2724
10°	2695	2704	2724
15°	2671	2694	2722
20°	2646	2682	2715
25°	2618	2657	2706
30°	2582	2636	2696
35°	2542	2613	2686
40°	2508	2590	2678
45°	2471	2566	2670
50°	2417	2542	2670
55°	2366	2518	2677
60°	2294	2495	2696
65°	2197	2456	2714
70°	2055	2415	2747
75°	1828	2380	2837
80°	1504	2390	3084
85°	1025	2662	3406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	3.2
10°-20°	480.9	9.1
20°-30°	727.3	13.8
30°-40°	877.6	16.7
40°-50°	917.6	17.4
50°-60°	846.6	16.1
60°-70°	673.2	12.8
70°-80°	424.9	8.1
80°-90°	149.0	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°	1376.2	26.1
0°-40°	2253.7	42.8
0°-60°	4018.0	76.3
0°-90°	5265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1759	1772	1763	1768	1772	167
15°	1684	1703	1699	1712	1717	475
25°	1549	1572	1572	1593	1601	713
35°	1360	1389	1397	1425	1437	852
45°	1141	1166	1185	1220	1233	879
55°	886	912	943	988	1002	791
65°	606	634	678	734	749	599
75°	309	344	402	462	479	328
85°	58	96	152	188	194	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.8	1774.8	1774.8	1774.8	1774.8
2.5°	1767.6	1779.2	1769.0	1774.8	1773.4
5°	1758.8	1771.9	1763.2	1767.6	1771.9
7.5°	1748.6	1763.2	1753.0	1760.3	1766.1
10°	1732.6	1747.2	1738.4	1747.2	1751.5
12.5°	1710.7	1728.2	1722.4	1732.6	1737.0
15°	1684.5	1703.4	1699.1	1712.2	1716.6
17.5°	1656.8	1677.2	1674.3	1688.9	1693.2
20°	1623.3	1646.6	1645.2	1659.7	1665.6
22.5°	1588.3	1611.6	1610.2	1626.2	1633.5
25°	1549.0	1572.3	1572.3	1592.7	1601.4
27.5°	1505.3	1531.5	1533.0	1553.4	1560.6
30°	1460.1	1486.3	1490.7	1512.6	1524.2
32.5°	1413.5	1438.2	1445.5	1470.3	1479.0
35°	1359.6	1388.7	1397.4	1425.1	1436.8
37.5°	1310.0	1336.2	1347.9	1377.0	1388.7
40°	1254.6	1282.3	1295.4	1327.5	1339.2
42.5°	1197.8	1225.5	1240.1	1275.0	1286.7
45°	1141.0	1165.7	1184.7	1219.7	1232.8
47.5°	1078.3	1106.0	1126.4	1164.3	1177.4
50°	1014.2	1043.3	1066.7	1107.5	1120.6
52.5°	953.0	979.2	1005.5	1050.6	1065.2
55°	886.0	912.2	942.8	988.0	1002.5
57.5°	817.5	843.7	878.7	926.8	942.8
60°	749.0	775.2	814.6	864.1	880.1
62.5°	677.6	703.8	747.5	798.5	813.1
65°	606.2	633.9	677.6	734.4	749.0
67.5°	533.3	561.0	607.6	667.4	683.4
70°	459.0	489.6	539.2	598.9	613.5
72.5°	381.8	416.8	472.1	530.4	547.9
75°	308.9	343.9	402.2	461.9	479.4
77.5°	237.5	276.9	335.2	397.8	416.8
80°	170.5	209.8	271.0	332.2	349.7
82.5°	109.3	150.1	211.3	269.6	284.2
85°	58.3	96.2	151.5	188.0	193.8
87.5°	18.9	49.5	68.5	90.3	91.8
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	15.03	16.70	15.40	17.02	17.33	15.75	17.42	16.12	17.74	18.05
	3H	16.82	18.34	17.19	18.66	19.02	17.92	19.44	18.30	19.76	20.12
	4H	17.45	18.88	17.85	19.23	19.60	18.85	20.29	19.25	20.63	21.01
	6H	17.87	19.20	18.28	19.57	19.96	19.71	21.04	20.12	21.41	21.80
	8H	17.98	19.26	18.41	19.65	20.04	20.09	21.36	20.51	21.75	22.15
	12H	18.04	19.26	18.47	19.65	20.07	20.40	21.62	20.83	22.00	22.43
4H	2H	15.80	17.23	16.19	17.58	17.95	16.36	17.79	16.75	18.14	18.51
	3H	17.82	19.03	18.23	19.42	19.82	18.77	19.98	19.18	20.37	20.77
	4H	18.58	19.68	19.01	20.09	20.53	19.87	20.97	20.30	21.38	21.82
	6H	19.13	20.10	19.59	20.54	20.99	20.91	21.88	21.36	22.32	22.77
	8H	19.29	20.20	19.75	20.64	21.10	21.38	22.28	21.83	22.72	23.19
	12H	19.39	20.21	19.87	20.68	21.15	21.77	22.59	22.25	23.06	23.53
8H	4H	19.07	19.97	19.53	20.41	20.88	20.19	21.09	20.65	21.53	22.00
	6H	19.78	20.53	20.27	21.02	21.49	21.41	22.16	21.90	22.65	23.12
	8H	20.02	20.70	20.53	21.20	21.69	22.00	22.68	22.51	23.19	23.67
	12H	20.19	20.79	20.70	21.28	21.84	22.55	23.15	23.05	23.64	24.20
12H	4H	19.17	19.99	19.65	20.46	20.93	20.22	21.04	20.70	21.51	21.98
	6H	19.94	20.62	20.44	21.12	21.61	21.47	22.15	21.98	22.66	23.14
	8H	20.26	20.87	20.77	21.35	21.91	22.15	22.75	22.65	23.24	23.80