

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: P1590015

Luminaire Tested: 24CZSP-SB-75VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-75VHE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

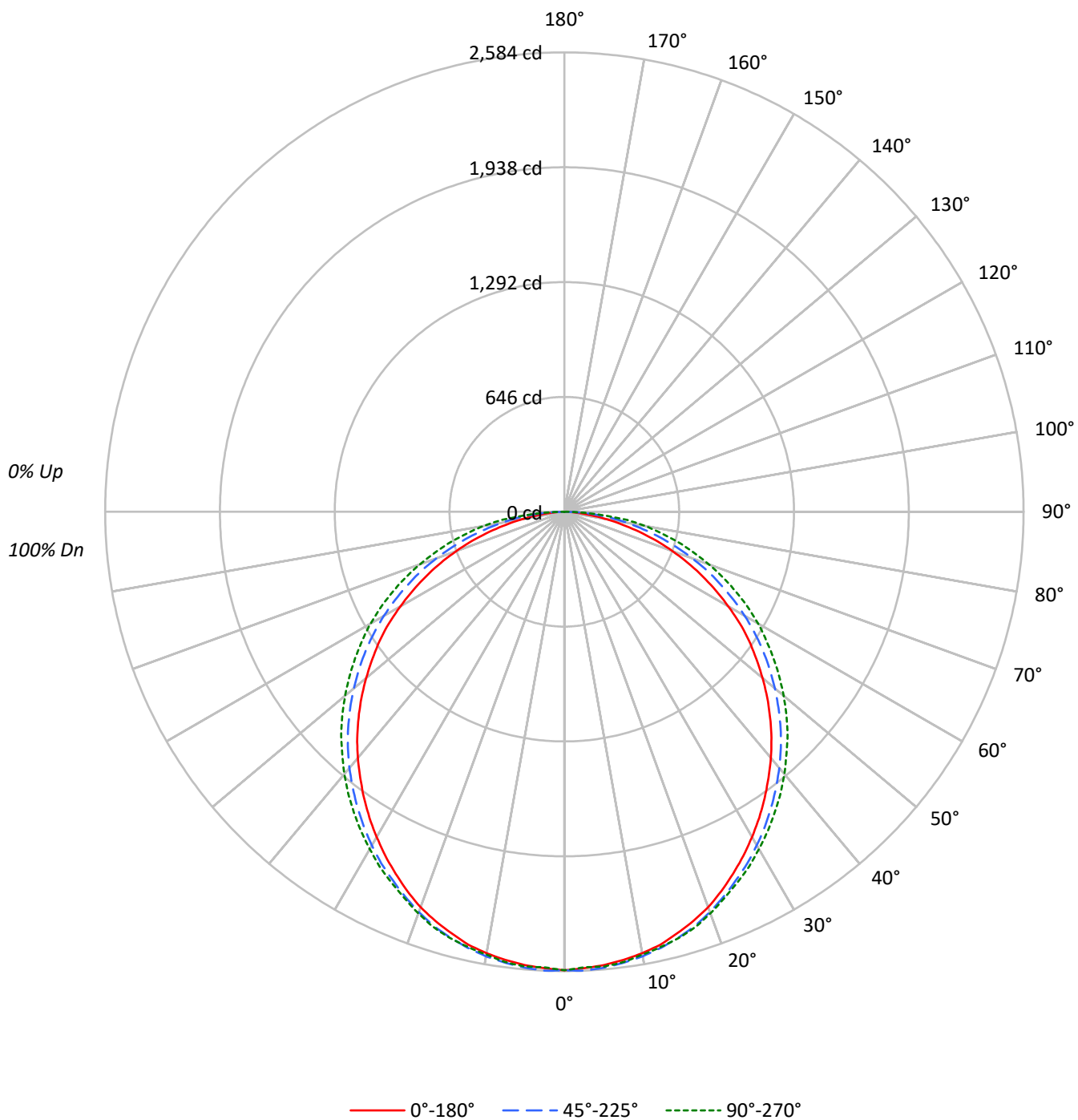
Lumens per Lamp: N/A
Luminaire Lumens: 7526.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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: 28.75 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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3950	3950	3950
5°	3935	3958	3948
10°	3922	3949	3934
15°	3892	3933	3938
20°	3858	3905	3918
25°	3795	3863	3890
30°	3735	3831	3874
35°	3675	3794	3860
40°	3615	3761	3850
45°	3547	3726	3847
50°	3469	3685	3837
55°	3390	3645	3837
60°	3264	3591	3860
65°	3112	3522	3862
70°	2903	3424	3873
75°	2583	3299	3940
80°	2121	3161	4088
85°	1399	2966	3696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4187 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	3.2
10°-20°	698.3	9.3
20°-30°	1052.4	14.0
30°-40°	1267.4	16.8
40°-50°	1324.1	17.6
50°-60°	1216.5	16.2
60°-70°	958.0	12.7
70°-80°	587.3	7.8
80°-90°	178.1	2.4
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°	1994.6	26.5
0°-40°	3262.1	43.3
0°-60°	5802.7	77.1
0°-90°	7526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2560	2564	2574	2571	2568	243
15°	2455	2464	2480	2490	2483	693
25°	2246	2260	2286	2310	2302	1035
35°	1966	1991	2029	2066	2064	1229
45°	1638	1672	1720	1768	1776	1263
55°	1270	1306	1365	1424	1437	1133
65°	859	903	972	1037	1066	849
75°	436	487	558	624	666	464
85°	80	118	169	188	210	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2569.3	2575.7	2583.6	2570.9	2564.5
5°	2559.7	2564.5	2574.1	2570.9	2567.7
7.5°	2542.2	2545.4	2558.2	2558.2	2555.0
10°	2521.5	2527.9	2539.0	2537.4	2529.5
12.5°	2494.4	2499.2	2512.0	2512.0	2507.2
15°	2454.6	2464.2	2480.1	2489.7	2483.3
17.5°	2413.2	2422.8	2443.5	2453.0	2449.8
20°	2367.0	2375.0	2395.7	2410.0	2403.6
22.5°	2309.7	2319.2	2343.1	2359.0	2352.7
25°	2245.9	2260.3	2285.8	2309.7	2301.7
27.5°	2182.2	2198.2	2230.0	2253.9	2250.7
30°	2112.1	2132.9	2166.3	2196.6	2190.2
32.5°	2040.5	2064.4	2099.4	2131.3	2129.7
35°	1965.6	1991.1	2029.3	2066.0	2064.4
37.5°	1886.0	1916.2	1956.0	1995.9	1997.5
40°	1807.9	1836.6	1881.2	1924.2	1925.8
42.5°	1725.1	1755.3	1803.1	1847.7	1849.3
45°	1637.5	1672.5	1720.3	1768.1	1776.1
47.5°	1548.3	1584.9	1634.3	1685.3	1694.8
50°	1455.9	1494.1	1546.7	1600.8	1610.4
52.5°	1361.9	1401.7	1455.9	1510.0	1524.4
55°	1269.5	1306.2	1365.1	1424.0	1436.8
57.5°	1172.4	1205.8	1269.5	1331.6	1347.6
60°	1065.6	1107.0	1172.4	1234.5	1260.0
62.5°	962.1	1006.7	1073.6	1135.7	1164.4
65°	858.6	903.2	971.7	1037.0	1065.6
67.5°	753.4	799.6	872.9	935.0	966.9
70°	648.3	694.5	764.6	831.5	864.9
72.5°	543.2	592.5	661.0	729.5	763.0
75°	436.4	487.4	557.5	624.4	665.8
77.5°	336.1	385.5	455.6	524.1	559.1
80°	240.5	289.9	358.4	426.9	463.5
82.5°	152.9	199.1	266.0	323.4	356.8
85°	79.6	117.9	168.8	188.0	210.3
87.5°	23.9	46.2	65.3	73.3	90.8
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	16.3	17.9	16.7	18.3	18.6	17.0	18.7	17.4	19.0	19.3
	3H	18.0	19.6	18.4	19.9	20.2	19.1	20.6	19.5	21.0	21.3
	4H	18.7	20.1	19.1	20.4	20.8	20.0	21.4	20.4	21.8	22.2
	6H	19.1	20.4	19.5	20.8	21.2	20.8	22.1	21.2	22.5	22.9
	8H	19.2	20.5	19.6	20.8	21.2	21.1	22.4	21.5	22.7	23.1
	12H	19.2	20.5	19.7	20.8	21.3	21.3	22.5	21.7	22.9	23.3
4H	2H	17.1	18.5	17.5	18.8	19.2	17.6	19.1	18.0	19.4	19.8
	3H	19.0	20.2	19.5	20.6	21.0	20.0	21.2	20.4	21.6	22.0
	4H	19.8	20.9	20.2	21.3	21.7	21.0	22.1	21.4	22.5	22.9
	6H	20.3	21.3	20.8	21.7	22.2	21.9	22.9	22.4	23.3	23.8
	8H	20.5	21.4	20.9	21.8	22.3	22.3	23.2	22.8	23.6	24.1
	12H	20.6	21.4	21.1	21.9	22.3	22.6	23.4	23.1	23.9	24.3
8H	4H	20.3	21.1	20.7	21.6	22.1	21.3	22.2	21.8	22.6	23.1
	6H	20.9	21.7	21.4	22.2	22.6	22.4	23.1	22.9	23.6	24.1
	8H	21.2	21.8	21.7	22.3	22.8	22.9	23.5	23.4	24.0	24.5
	12H	21.3	21.9	21.8	22.4	22.9	23.2	23.8	23.8	24.3	24.9
12H	4H	20.3	21.1	20.8	21.6	22.1	21.3	22.1	21.8	22.6	23.1
	6H	21.1	21.7	21.6	22.2	22.7	22.4	23.1	23.0	23.6	24.1
	8H	21.4	21.9	21.9	22.4	23.0	23.0	23.6	23.5	24.1	24.6

(END OF REPORT)