

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: P1590019

Luminaire Tested: 24CZSP-SB-75VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590019
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

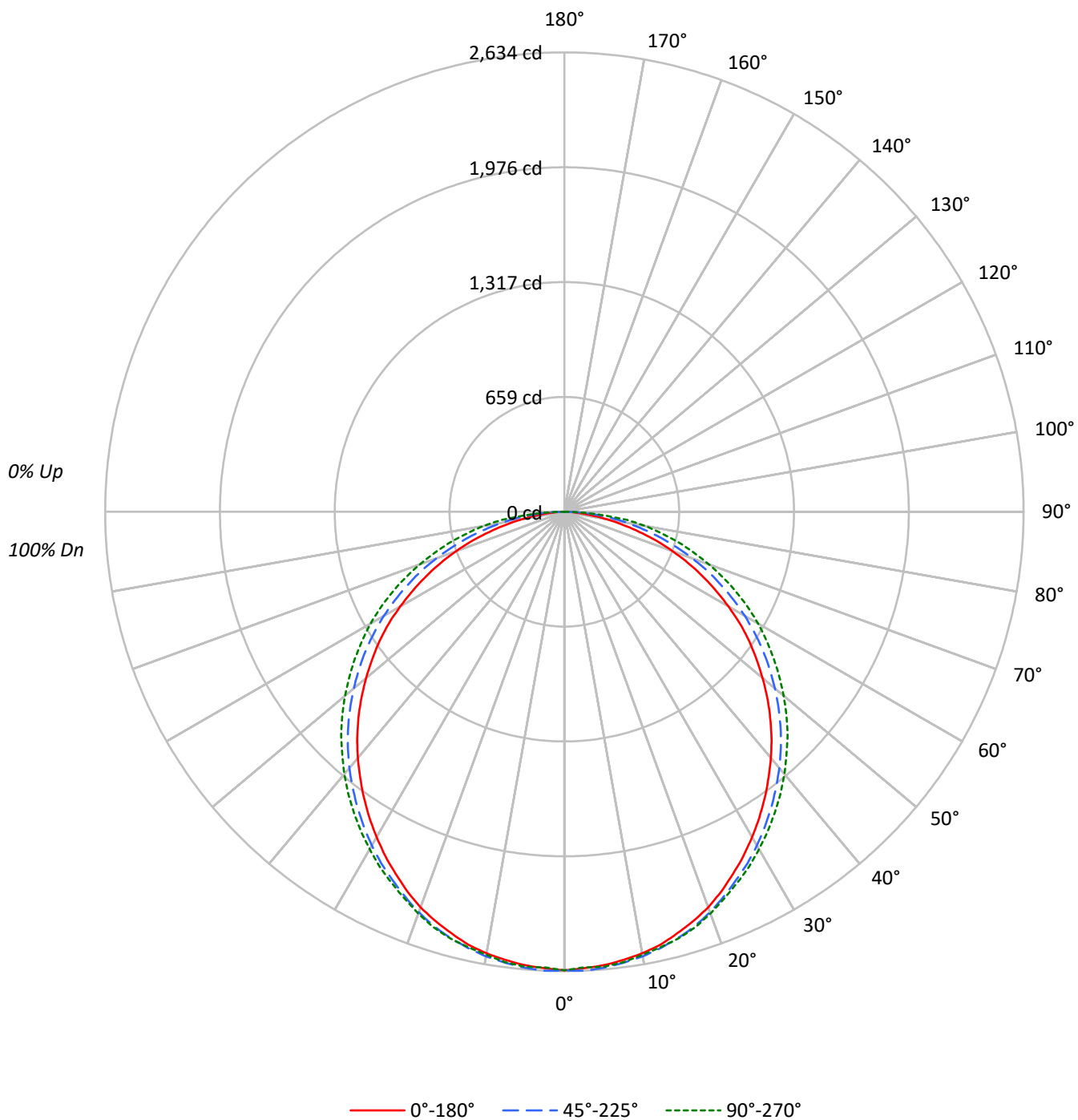
Lumens per Lamp: N/A
Luminaire Lumens: 7673.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4027	4027	4027
5°	4012	4035	4025
10°	3998	4026	4011
15°	3968	4009	4015
20°	3933	3981	3994
25°	3870	3938	3966
30°	3808	3906	3949
35°	3747	3869	3935
40°	3685	3835	3926
45°	3616	3799	3922
50°	3537	3757	3912
55°	3456	3717	3911
60°	3328	3662	3935
65°	3172	3590	3937
70°	2960	3491	3949
75°	2633	3364	4017
80°	2163	3223	4168
85°	1427	3024	3768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4269 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	3.2
10°-20°	711.9	9.3
20°-30°	1073.0	14.0
30°-40°	1292.2	16.8
40°-50°	1350.0	17.6
50°-60°	1240.2	16.2
60°-70°	976.7	12.7
70°-80°	598.8	7.8
80°-90°	181.6	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°	2033.6	26.5
0°-40°	3325.8	43.3
0°-60°	5916.0	77.1
0°-90°	7673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2610	2615	2624	2621	2618	248
15°	2503	2512	2528	2538	2532	706
25°	2290	2304	2330	2355	2347	1056
35°	2004	2030	2069	2106	2105	1253
45°	1670	1705	1754	1803	1811	1288
55°	1294	1332	1392	1452	1465	1155
65°	875	921	991	1057	1086	865
75°	445	497	568	637	679	473
85°	81	120	172	192	214	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2629.2	2629.2	2629.2	2629.2	2629.2
2.5°	2619.5	2626.0	2634.1	2621.1	2614.6
5°	2609.7	2614.6	2624.4	2621.1	2617.9
7.5°	2591.9	2595.1	2608.1	2608.1	2604.9
10°	2570.8	2577.3	2588.6	2587.0	2578.9
12.5°	2543.2	2548.0	2561.0	2561.0	2556.2
15°	2502.6	2512.3	2528.5	2538.3	2531.8
17.5°	2460.3	2470.1	2491.2	2500.9	2497.7
20°	2413.2	2421.4	2442.5	2457.1	2450.6
22.5°	2354.8	2364.5	2388.9	2405.1	2398.6
25°	2289.8	2304.4	2330.4	2354.8	2346.7
27.5°	2224.9	2241.1	2273.6	2297.9	2294.7
30°	2153.4	2174.5	2208.6	2239.5	2233.0
32.5°	2080.3	2104.7	2140.4	2172.9	2171.3
35°	2004.0	2030.0	2069.0	2106.3	2104.7
37.5°	1922.8	1953.7	1994.3	2034.9	2036.5
40°	1843.2	1872.5	1917.9	1961.8	1963.4
42.5°	1758.8	1789.6	1838.3	1883.8	1885.4
45°	1669.5	1705.2	1753.9	1802.6	1810.7
47.5°	1578.5	1615.9	1666.2	1718.2	1727.9
50°	1484.3	1523.3	1576.9	1632.1	1641.8
52.5°	1388.5	1429.1	1484.3	1539.5	1554.2
55°	1294.3	1331.7	1391.8	1451.8	1464.8
57.5°	1195.3	1229.4	1294.3	1357.7	1373.9
60°	1086.4	1128.7	1195.3	1258.6	1284.6
62.5°	980.9	1026.4	1094.6	1157.9	1187.1
65°	875.3	920.8	990.6	1057.2	1086.4
67.5°	768.1	815.2	889.9	953.3	985.8
70°	661.0	708.1	779.5	847.7	881.8
72.5°	553.8	604.1	674.0	743.8	777.9
75°	445.0	496.9	568.4	636.6	678.8
77.5°	342.7	393.0	464.5	534.3	570.0
80°	245.2	295.6	365.4	435.2	472.6
82.5°	155.9	203.0	271.2	329.7	363.8
85°	81.2	120.2	172.1	191.6	214.4
87.5°	24.4	47.1	66.6	74.7	92.6
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	16.4	18.0	16.7	18.3	18.6	17.1	18.8	17.5	19.1	19.4
	3H	18.1	19.6	18.5	19.9	20.3	19.2	20.7	19.6	21.0	21.4
	4H	18.7	20.2	19.1	20.5	20.9	20.1	21.5	20.5	21.8	22.2
	6H	19.2	20.5	19.6	20.8	21.2	20.8	22.2	21.3	22.5	22.9
	8H	19.3	20.5	19.7	20.9	21.3	21.2	22.4	21.6	22.8	23.2
	12H	19.3	20.5	19.7	20.9	21.3	21.4	22.6	21.8	23.0	23.4
4H	2H	17.1	18.5	17.5	18.9	19.3	17.7	19.1	18.1	19.5	19.8
	3H	19.1	20.3	19.5	20.7	21.1	20.0	21.2	20.4	21.6	22.0
	4H	19.9	21.0	20.3	21.4	21.8	21.1	22.2	21.5	22.6	23.0
	6H	20.4	21.4	20.9	21.8	22.3	22.0	22.9	22.4	23.4	23.8
	8H	20.6	21.4	21.0	21.9	22.4	22.4	23.3	22.8	23.7	24.2
	12H	20.6	21.4	21.1	21.9	22.4	22.7	23.5	23.1	23.9	24.4
8H	4H	20.3	21.2	20.8	21.7	22.1	21.4	22.3	21.8	22.7	23.2
	6H	21.0	21.7	21.5	22.2	22.7	22.5	23.2	22.9	23.7	24.2
	8H	21.2	21.9	21.7	22.4	22.9	22.9	23.6	23.4	24.1	24.6
	12H	21.4	22.0	21.9	22.5	23.0	23.3	23.9	23.8	24.4	25.0
12H	4H	20.4	21.2	20.9	21.7	22.2	21.4	22.2	21.9	22.7	23.1
	6H	21.1	21.8	21.7	22.3	22.8	22.5	23.2	23.0	23.6	24.2
	8H	21.4	22.0	21.9	22.5	23.1	23.1	23.6	23.6	24.1	24.7

(END OF REPORT)