

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: P1590029

Luminaire Tested: 24CZSP-SB-75VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590029
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-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

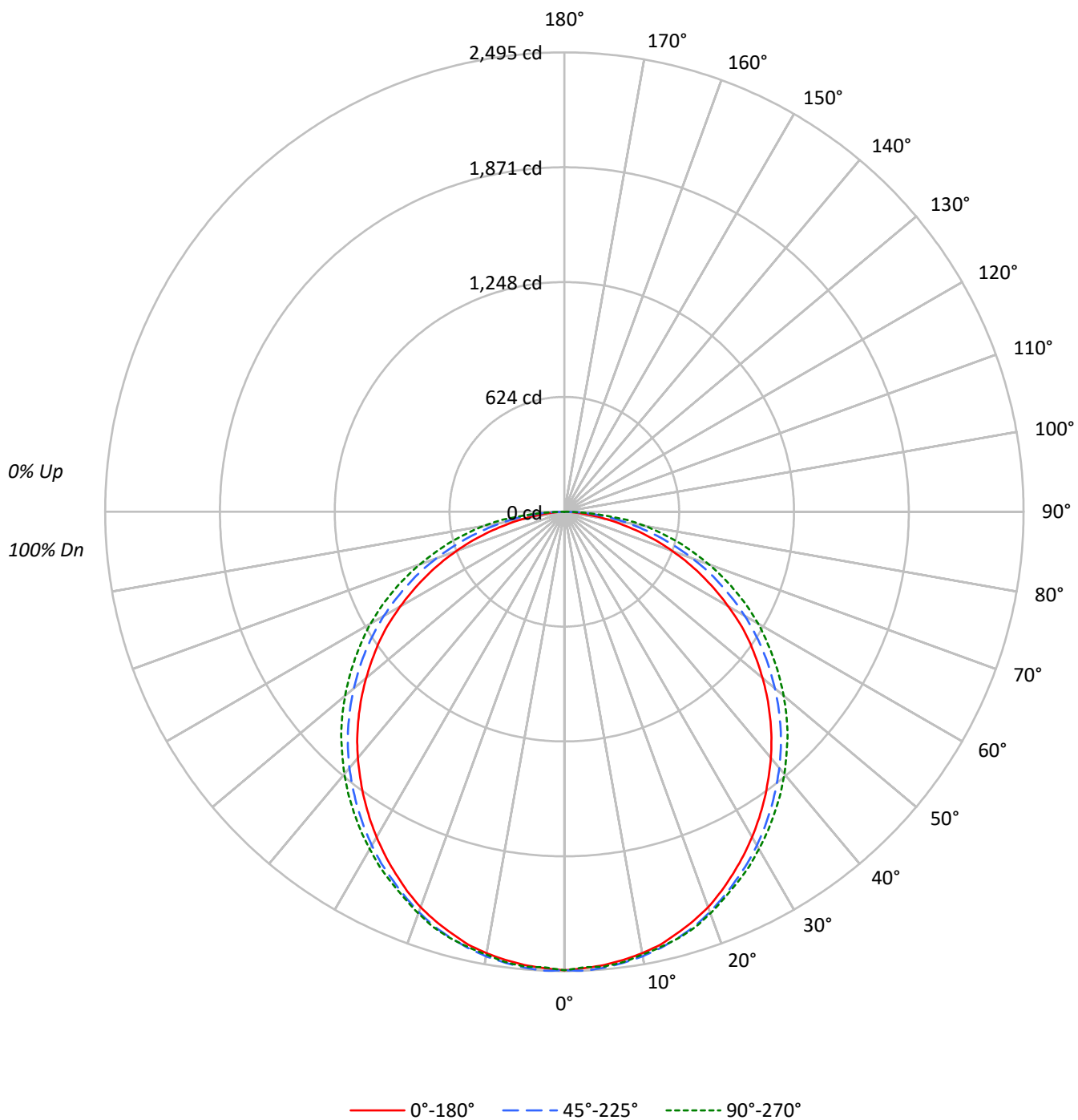
Lumens per Lamp: N/A
Luminaire Lumens: 7267.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3814	3814	3814
5°	3800	3821	3812
10°	3787	3813	3799
15°	3758	3797	3802
20°	3725	3770	3783
25°	3665	3730	3756
30°	3607	3699	3740
35°	3549	3664	3727
40°	3490	3632	3718
45°	3425	3598	3715
50°	3350	3559	3705
55°	3273	3520	3705
60°	3152	3468	3727
65°	3004	3400	3729
70°	2803	3306	3740
75°	2494	3186	3805
80°	2048	3053	3948
85°	1351	2864	3567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	3.2
10°-20°	674.2	9.3
20°-30°	1016.2	14.0
30°-40°	1223.8	16.8
40°-50°	1278.5	17.6
50°-60°	1174.6	16.2
60°-70°	925.0	12.7
70°-80°	567.1	7.8
80°-90°	172.0	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°	1926.0	26.5
0°-40°	3149.8	43.3
0°-60°	5603.0	77.1
0°-90°	7267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2472	2476	2486	2482	2479	235
15°	2370	2379	2395	2404	2398	669
25°	2169	2182	2207	2230	2222	1000
35°	1898	1923	1960	1995	1993	1187
45°	1581	1615	1661	1707	1715	1220
55°	1226	1261	1318	1375	1387	1094
65°	829	872	938	1001	1029	820
75°	421	471	538	603	643	448
85°	77	114	163	182	203	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2490.1	2490.1	2490.1	2490.1	2490.1
2.5°	2480.9	2487.0	2494.7	2482.4	2476.3
5°	2471.7	2476.3	2485.5	2482.4	2479.3
7.5°	2454.7	2457.8	2470.1	2470.1	2467.0
10°	2434.7	2440.9	2451.7	2450.1	2442.4
12.5°	2408.6	2413.2	2425.5	2425.5	2420.9
15°	2370.1	2379.4	2394.8	2404.0	2397.8
17.5°	2330.2	2339.4	2359.4	2368.6	2365.5
20°	2285.5	2293.2	2313.2	2327.1	2320.9
22.5°	2230.2	2239.4	2262.5	2277.9	2271.7
25°	2168.7	2182.5	2207.1	2230.2	2222.5
27.5°	2107.1	2122.5	2153.3	2176.3	2173.3
30°	2039.5	2059.5	2091.8	2121.0	2114.8
32.5°	1970.2	1993.3	2027.2	2057.9	2056.4
35°	1898.0	1922.6	1959.5	1994.9	1993.3
37.5°	1821.1	1850.3	1888.7	1927.2	1928.7
40°	1745.7	1773.4	1816.4	1858.0	1859.5
42.5°	1665.7	1694.9	1741.1	1784.1	1785.7
45°	1581.1	1615.0	1661.1	1707.2	1714.9
47.5°	1495.0	1530.4	1578.0	1627.3	1636.5
50°	1405.8	1442.7	1493.5	1545.7	1555.0
52.5°	1315.0	1353.5	1405.8	1458.1	1471.9
55°	1225.8	1261.2	1318.1	1375.0	1387.3
57.5°	1132.0	1164.3	1225.8	1285.8	1301.2
60°	1029.0	1068.9	1132.0	1192.0	1216.6
62.5°	929.0	972.1	1036.6	1096.6	1124.3
65°	829.0	872.1	938.2	1001.3	1029.0
67.5°	727.5	772.1	842.9	902.8	933.6
70°	626.0	670.6	738.3	802.9	835.2
72.5°	524.5	572.2	638.3	704.4	736.7
75°	421.4	470.6	538.3	602.9	642.9
77.5°	324.5	372.2	439.9	506.0	539.9
80°	232.2	279.9	346.1	412.2	447.6
82.5°	147.7	192.3	256.9	312.2	344.5
85°	76.9	113.8	163.0	181.5	203.0
87.5°	23.1	44.6	63.1	70.8	87.7
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	16.2	17.8	16.5	18.1	18.5	16.9	18.6	17.3	18.9	19.2
	3H	17.9	19.4	18.3	19.8	20.1	19.0	20.5	19.4	20.8	21.2
	4H	18.6	20.0	18.9	20.3	20.7	19.9	21.3	20.3	21.7	22.0
	6H	19.0	20.3	19.4	20.6	21.0	20.7	22.0	21.1	22.3	22.7
	8H	19.1	20.3	19.5	20.7	21.1	21.0	22.2	21.4	22.6	23.0
	12H	19.1	20.3	19.6	20.7	21.1	21.2	22.4	21.6	22.8	23.2
4H	2H	16.9	18.4	17.3	18.7	19.1	17.5	18.9	17.9	19.3	19.7
	3H	18.9	20.1	19.3	20.5	20.9	19.8	21.0	20.3	21.4	21.8
	4H	19.7	20.8	20.1	21.2	21.6	20.9	22.0	21.3	22.4	22.8
	6H	20.2	21.2	20.7	21.6	22.1	21.8	22.8	22.3	23.2	23.7
	8H	20.4	21.3	20.8	21.7	22.2	22.2	23.1	22.7	23.5	24.0
	12H	20.5	21.3	20.9	21.7	22.2	22.5	23.3	22.9	23.7	24.2
8H	4H	20.1	21.0	20.6	21.5	21.9	21.2	22.1	21.6	22.5	23.0
	6H	20.8	21.6	21.3	22.0	22.5	22.3	23.0	22.8	23.5	24.0
	8H	21.0	21.7	21.5	22.2	22.7	22.7	23.4	23.3	23.9	24.4
	12H	21.2	21.8	21.7	22.3	22.8	23.1	23.7	23.6	24.2	24.8
12H	4H	20.2	21.0	20.7	21.5	22.0	21.2	22.0	21.7	22.5	23.0
	6H	21.0	21.6	21.5	22.1	22.6	22.3	23.0	22.8	23.5	24.0
	8H	21.2	21.8	21.7	22.3	22.9	22.9	23.5	23.4	23.9	24.5

(END OF REPORT)