

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: P1590028

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-75VHE-L945-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

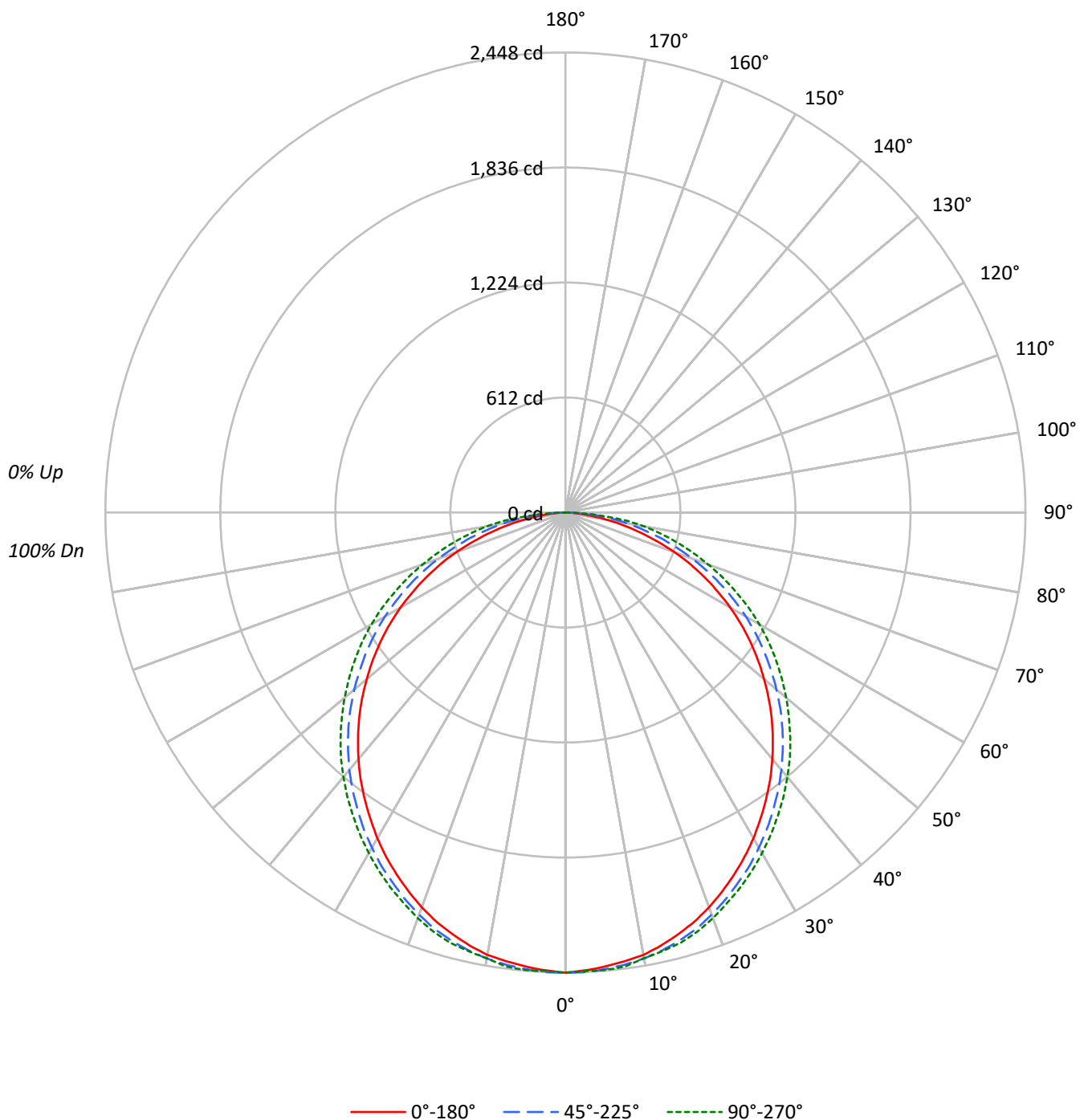
Lumens per Lamp: N/A
Luminaire Lumens: 7122.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3750	3750	3750
5°	3729	3750	3757
10°	3717	3748	3746
15°	3683	3736	3758
20°	3643	3711	3743
25°	3591	3674	3721
30°	3539	3642	3701
35°	3481	3607	3684
40°	3425	3575	3673
45°	3362	3538	3664
50°	3289	3494	3654
55°	3208	3449	3649
60°	3107	3398	3651
65°	2965	3326	3631
70°	2772	3225	3622
75°	2457	3101	3636
80°	2000	2946	3743
85°	1292	2719	3232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3794 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	3.3
10°-20°	663.5	9.3
20°-30°	1000.3	14.0
30°-40°	1203.7	16.9
40°-50°	1255.5	17.6
50°-60°	1150.8	16.2
60°-70°	903.7	12.7
70°-80°	550.0	7.7
80°-90°	162.7	2.3
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°	1895.5	26.6
0°-40°	3099.2	43.5
0°-60°	5505.6	77.3
0°-90°	7122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2425	2441	2439	2436	2444	230
15°	2323	2346	2356	2359	2370	655
25°	2125	2154	2174	2188	2202	979
35°	1862	1891	1929	1956	1970	1165
45°	1552	1584	1633	1672	1691	1197
55°	1201	1232	1292	1344	1367	1073
65°	818	849	918	979	1002	809
75°	415	454	524	587	614	440
85°	74	104	155	173	184	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2448.3	2448.3	2448.3	2448.3	2448.3
2.5°	2439.1	2451.4	2448.3	2437.6	2442.2
5°	2425.3	2440.6	2439.1	2436.0	2443.7
7.5°	2408.5	2425.3	2426.8	2426.8	2436.0
10°	2390.1	2406.9	2410.0	2405.4	2408.5
12.5°	2359.4	2379.4	2385.5	2385.5	2390.1
15°	2322.7	2345.6	2356.4	2359.4	2370.2
17.5°	2282.8	2307.3	2321.1	2328.8	2338.0
20°	2235.3	2261.4	2276.7	2285.9	2296.6
22.5°	2181.7	2210.8	2227.7	2236.9	2249.1
25°	2125.0	2154.1	2174.1	2187.8	2201.6
27.5°	2065.3	2092.8	2120.4	2137.3	2149.5
30°	2000.9	2030.0	2059.1	2080.6	2092.8
32.5°	1932.0	1962.6	1996.3	2019.3	2033.1
35°	1861.5	1890.6	1928.9	1956.5	1970.3
37.5°	1789.5	1820.1	1860.0	1889.1	1905.9
40°	1712.9	1745.1	1788.0	1820.1	1837.0
42.5°	1633.2	1663.9	1711.4	1748.1	1768.0
45°	1552.0	1584.2	1633.2	1671.5	1691.4
47.5°	1467.8	1498.4	1552.0	1596.4	1613.3
50°	1380.4	1409.5	1466.2	1513.7	1533.6
52.5°	1291.6	1322.2	1378.9	1429.4	1450.9
55°	1201.2	1231.8	1291.6	1343.7	1366.6
57.5°	1109.2	1139.9	1201.2	1254.8	1282.4
60°	1014.3	1044.9	1109.2	1164.4	1192.0
62.5°	916.2	948.4	1014.3	1070.9	1100.0
65°	818.1	848.8	917.7	979.0	1002.0
67.5°	720.1	750.7	818.1	879.4	907.0
70°	619.0	654.2	720.1	784.4	808.9
72.5°	513.3	553.1	619.0	686.4	710.9
75°	415.2	453.5	524.0	586.8	614.4
77.5°	318.7	360.0	425.9	490.3	517.9
80°	226.8	266.6	334.0	395.3	424.4
82.5°	144.0	179.3	246.7	301.8	323.3
85°	73.5	104.2	154.7	173.1	183.9
87.5°	21.4	36.8	55.2	68.9	76.6
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	16.1	17.8	16.5	18.1	18.4	16.8	18.5	17.2	18.8	19.1
	3H	17.9	19.4	18.2	19.7	20.1	18.9	20.4	19.3	20.7	21.1
	4H	18.5	19.9	18.9	20.2	20.6	19.8	21.2	20.2	21.5	21.9
	6H	18.9	20.2	19.3	20.6	21.0	20.5	21.8	20.9	22.2	22.6
	8H	19.0	20.3	19.4	20.6	21.0	20.8	22.1	21.2	22.5	22.9
	12H	19.0	20.2	19.5	20.6	21.1	21.0	22.2	21.4	22.6	23.0
4H	2H	16.9	18.3	17.3	18.6	19.0	17.4	18.9	17.8	19.2	19.6
	3H	18.9	20.0	19.3	20.4	20.8	19.7	20.9	20.2	21.3	21.7
	4H	19.6	20.7	20.0	21.1	21.5	20.8	21.8	21.2	22.3	22.7
	6H	20.1	21.1	20.6	21.5	22.0	21.7	22.6	22.1	23.1	23.5
	8H	20.3	21.2	20.7	21.6	22.1	22.0	22.9	22.5	23.4	23.8
	12H	20.3	21.1	20.8	21.6	22.1	22.3	23.1	22.8	23.6	24.0
8H	4H	20.0	20.9	20.5	21.4	21.8	21.1	21.9	21.5	22.4	22.9
	6H	20.7	21.4	21.2	21.9	22.4	22.1	22.9	22.6	23.3	23.8
	8H	20.9	21.6	21.4	22.1	22.6	22.6	23.3	23.1	23.8	24.2
	12H	21.0	21.6	21.6	22.1	22.7	22.9	23.5	23.4	24.0	24.6
12H	4H	20.1	20.9	20.6	21.4	21.9	21.1	21.9	21.6	22.4	22.8
	6H	20.8	21.5	21.4	22.0	22.5	22.2	22.9	22.7	23.3	23.8
	8H	21.1	21.7	21.6	22.2	22.7	22.7	23.3	23.2	23.8	24.3

(END OF REPORT)