

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: P1590013

Luminaire Tested: 24CZSP-SB-75VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590013
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

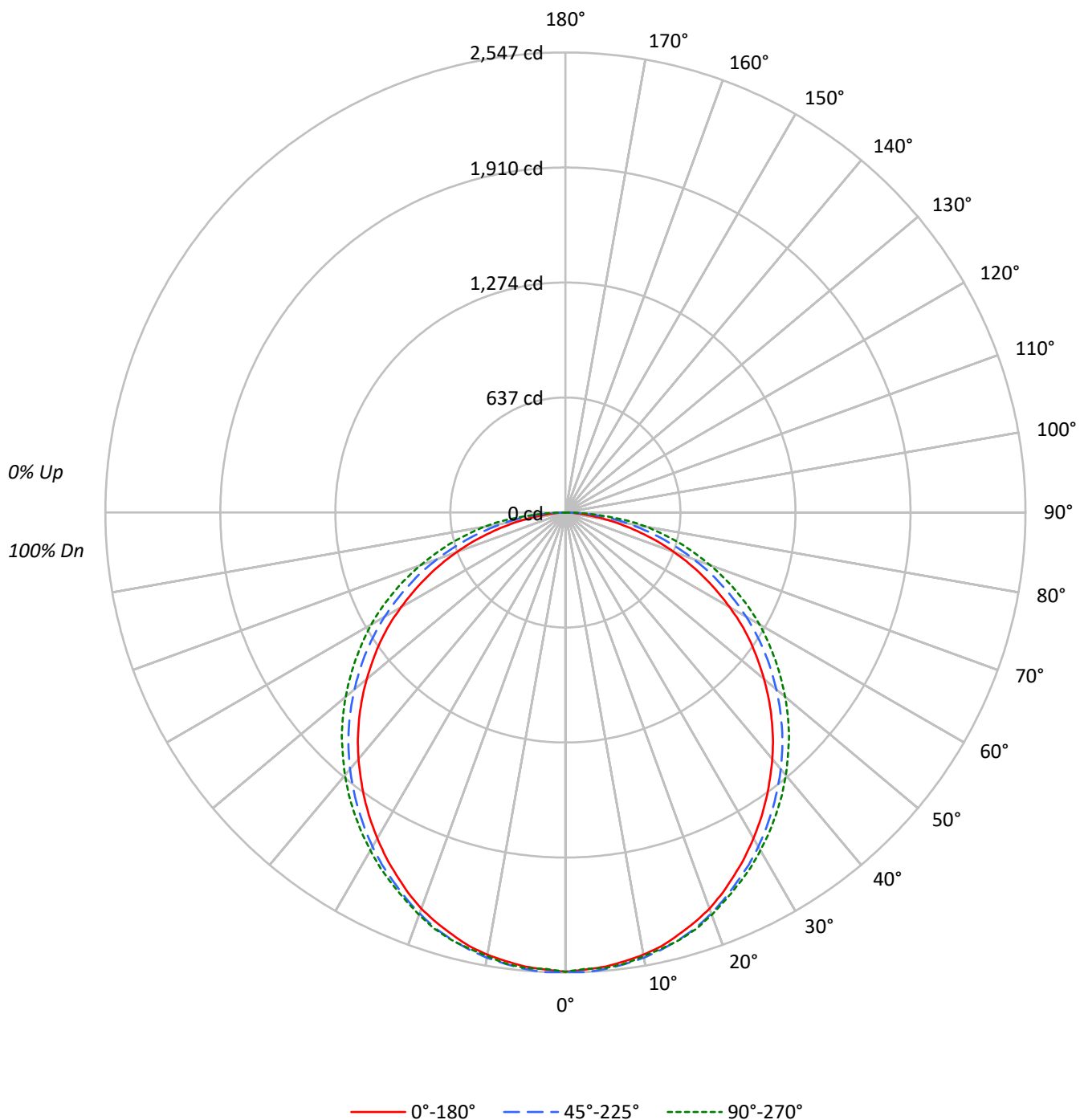
Lumens per Lamp: N/A
Luminaire Lumens: 7420.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3894	3894	3894
5°	3880	3902	3892
10°	3866	3893	3879
15°	3837	3877	3882
20°	3804	3850	3863
25°	3742	3808	3835
30°	3683	3777	3819
35°	3623	3741	3806
40°	3564	3708	3796
45°	3497	3674	3793
50°	3420	3634	3783
55°	3342	3594	3782
60°	3218	3541	3805
65°	3068	3472	3808
70°	2862	3376	3819
75°	2546	3253	3884
80°	2091	3116	4031
85°	1380	2926	3643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4128 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	3.2
10°-20°	688.4	9.3
20°-30°	1037.6	14.0
30°-40°	1249.6	16.8
40°-50°	1305.5	17.6
50°-60°	1199.4	16.2
60°-70°	944.5	12.7
70°-80°	579.0	7.8
80°-90°	175.6	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°	1966.6	26.5
0°-40°	3216.1	43.3
0°-60°	5720.9	77.1
0°-90°	7420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2524	2528	2538	2535	2532	240
15°	2420	2430	2445	2455	2448	683
25°	2214	2228	2254	2277	2269	1021
35°	1938	1963	2001	2037	2035	1212
45°	1614	1649	1696	1743	1751	1245
55°	1252	1288	1346	1404	1416	1117
65°	846	890	958	1022	1051	837
75°	430	481	550	616	656	457
85°	78	116	166	185	207	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.5	2542.5	2542.5	2542.5	2542.5
2.5°	2533.1	2539.4	2547.2	2534.7	2528.4
5°	2523.7	2528.4	2537.8	2534.7	2531.5
7.5°	2506.4	2509.6	2522.1	2522.1	2519.0
10°	2486.0	2492.3	2503.3	2501.7	2493.9
12.5°	2459.3	2464.0	2476.6	2476.6	2471.9
15°	2420.0	2429.5	2445.2	2454.6	2448.3
17.5°	2379.2	2388.6	2409.0	2418.5	2415.3
20°	2333.7	2341.5	2361.9	2376.1	2369.8
22.5°	2277.1	2286.6	2310.1	2325.8	2319.5
25°	2214.3	2228.4	2253.6	2277.1	2269.3
27.5°	2151.5	2167.2	2198.6	2222.2	2219.0
30°	2082.4	2102.8	2135.8	2165.6	2159.4
32.5°	2011.7	2035.3	2069.8	2101.2	2099.7
35°	1937.9	1963.0	2000.7	2036.9	2035.3
37.5°	1859.4	1889.2	1928.5	1967.8	1969.3
40°	1782.4	1810.7	1854.7	1897.1	1898.7
42.5°	1700.8	1730.6	1777.7	1821.7	1823.3
45°	1614.4	1649.0	1696.1	1743.2	1751.0
47.5°	1526.5	1562.6	1611.3	1661.5	1670.9
50°	1435.4	1473.1	1524.9	1578.3	1587.7
52.5°	1342.7	1382.0	1435.4	1488.8	1502.9
55°	1251.6	1287.8	1345.9	1404.0	1416.5
57.5°	1155.8	1188.8	1251.6	1312.9	1328.6
60°	1050.6	1091.5	1155.8	1217.1	1242.2
62.5°	948.5	992.5	1058.5	1119.7	1148.0
65°	846.5	890.4	958.0	1022.4	1050.6
67.5°	742.8	788.4	860.6	921.8	953.3
70°	639.2	684.7	753.8	819.8	852.7
72.5°	535.5	584.2	651.7	719.3	752.2
75°	430.3	480.6	549.7	615.6	656.4
77.5°	331.4	380.0	449.1	516.7	551.2
80°	237.1	285.8	353.3	420.9	457.0
82.5°	150.8	196.3	262.3	318.8	351.8
85°	78.5	116.2	166.5	185.3	207.3
87.5°	23.6	45.5	64.4	72.2	89.5
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	17.9	16.6	18.2	18.5	17.0	18.6	17.3	19.0	19.3
	3H	18.0	19.5	18.4	19.8	20.2	19.1	20.6	19.5	20.9	21.3
	4H	18.6	20.0	19.0	20.4	20.8	20.0	21.4	20.4	21.7	22.1
	6H	19.0	20.4	19.4	20.7	21.1	20.7	22.1	21.1	22.4	22.8
	8H	19.1	20.4	19.6	20.8	21.2	21.0	22.3	21.5	22.7	23.1
	12H	19.2	20.4	19.6	20.8	21.2	21.3	22.5	21.7	22.8	23.3
4H	2H	17.0	18.4	17.4	18.8	19.2	17.6	19.0	18.0	19.4	19.7
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.3	21.5	21.9
	4H	19.8	20.8	20.2	21.3	21.7	20.9	22.0	21.4	22.4	22.9
	6H	20.3	21.2	20.7	21.7	22.1	21.9	22.8	22.3	23.3	23.7
	8H	20.4	21.3	20.9	21.8	22.2	22.3	23.2	22.7	23.6	24.1
	12H	20.5	21.3	21.0	21.8	22.3	22.5	23.3	23.0	23.8	24.3
8H	4H	20.2	21.1	20.7	21.5	22.0	21.2	22.1	21.7	22.6	23.0
	6H	20.9	21.6	21.4	22.1	22.6	22.3	23.1	22.8	23.6	24.0
	8H	21.1	21.8	21.6	22.3	22.8	22.8	23.5	23.3	24.0	24.5
	12H	21.3	21.8	21.8	22.3	22.9	23.2	23.8	23.7	24.3	24.8
12H	4H	20.3	21.1	20.8	21.6	22.0	21.3	22.1	21.8	22.6	23.0
	6H	21.0	21.7	21.5	22.2	22.7	22.4	23.1	22.9	23.5	24.1
	8H	21.3	21.9	21.8	22.4	22.9	22.9	23.5	23.4	24.0	24.6

(END OF REPORT)