

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: P1590016

Luminaire Tested: 24CZSP-SB-75VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590016
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-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

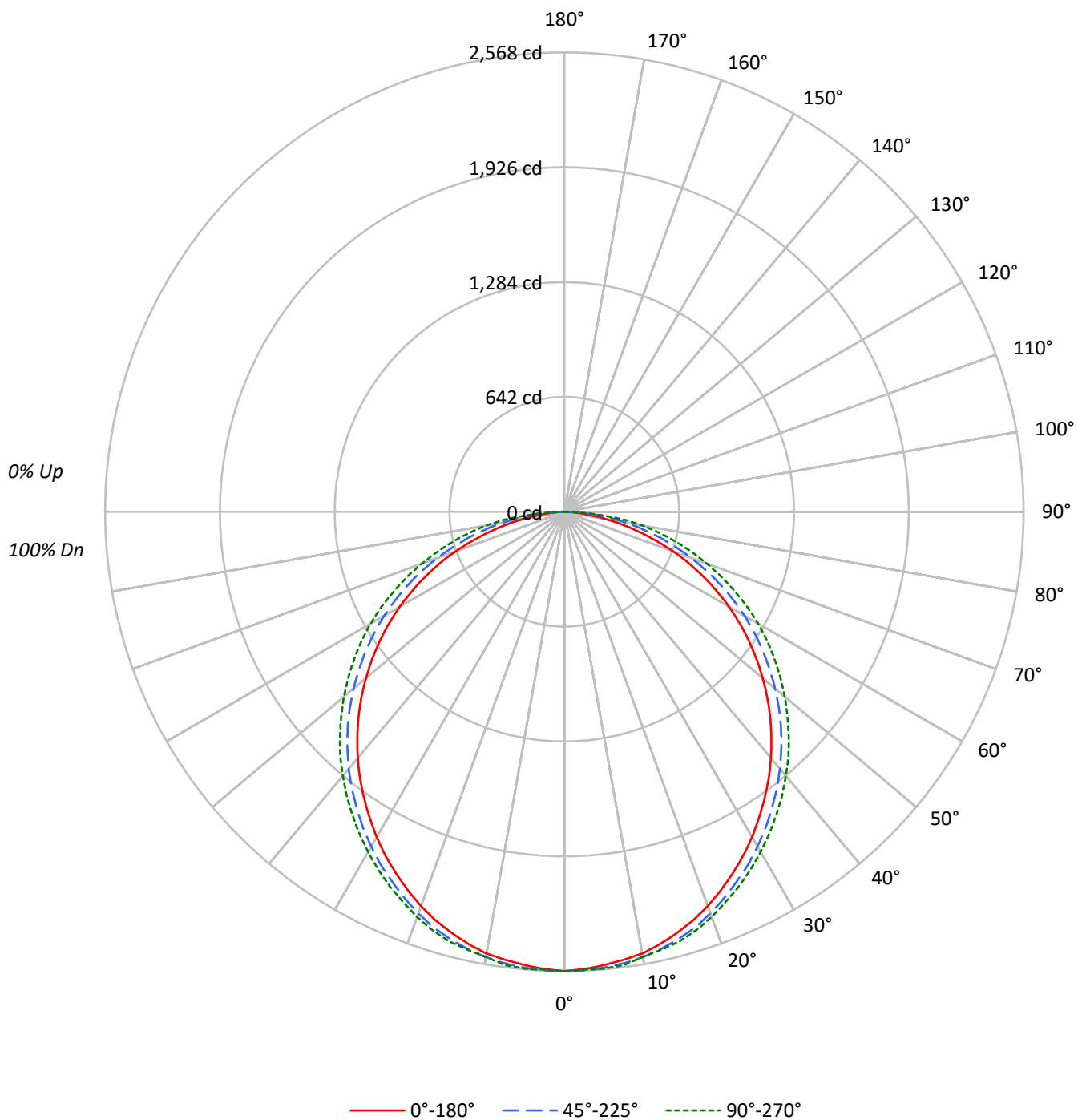
Lumens per Lamp: N/A
Luminaire Lumens: 7471.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3934	3934	3934
5°	3912	3934	3941
10°	3899	3932	3929
15°	3863	3919	3942
20°	3822	3893	3927
25°	3767	3854	3903
30°	3712	3820	3883
35°	3651	3783	3864
40°	3593	3750	3853
45°	3527	3711	3843
50°	3451	3665	3833
55°	3365	3618	3828
60°	3259	3564	3830
65°	3110	3489	3809
70°	2908	3383	3800
75°	2577	3253	3814
80°	2098	3091	3927
85°	1355	2852	3390

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	3.3
10°-20°	696.0	9.3
20°-30°	1049.4	14.0
30°-40°	1262.7	16.9
40°-50°	1317.1	17.6
50°-60°	1207.2	16.2
60°-70°	948.0	12.7
70°-80°	577.0	7.7
80°-90°	170.7	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°	1988.4	26.6
0°-40°	3251.1	43.5
0°-60°	5775.4	77.3
0°-90°	7471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2544	2560	2559	2555	2563	242
15°	2436	2461	2472	2475	2486	687
25°	2229	2260	2281	2295	2310	1027
35°	1953	1983	2023	2052	2067	1222
45°	1628	1662	1713	1753	1774	1255
55°	1260	1292	1355	1410	1434	1126
65°	858	890	963	1027	1051	849
75°	436	476	550	616	644	462
85°	77	109	162	182	193	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2568.3	2568.3	2568.3	2568.3	2568.3
2.5°	2558.6	2571.5	2568.3	2557.0	2561.8
5°	2544.2	2560.2	2558.6	2555.4	2563.4
7.5°	2526.5	2544.2	2545.8	2545.8	2555.4
10°	2507.2	2524.9	2528.1	2523.3	2526.5
12.5°	2475.1	2495.9	2502.4	2502.4	2507.2
15°	2436.5	2460.6	2471.8	2475.1	2486.3
17.5°	2394.7	2420.4	2434.9	2442.9	2452.6
20°	2344.9	2372.2	2388.3	2397.9	2409.2
22.5°	2288.6	2319.2	2336.8	2346.5	2359.3
25°	2229.2	2259.7	2280.6	2295.1	2309.5
27.5°	2166.5	2195.4	2224.3	2242.0	2254.9
30°	2099.0	2129.5	2160.0	2182.5	2195.4
32.5°	2026.7	2058.8	2094.2	2118.3	2132.7
35°	1952.7	1983.3	2023.4	2052.4	2066.8
37.5°	1877.2	1909.3	1951.1	1981.7	1999.3
40°	1796.8	1830.6	1875.6	1909.3	1927.0
42.5°	1713.3	1745.4	1795.2	1833.8	1854.7
45°	1628.1	1661.8	1713.3	1753.4	1774.3
47.5°	1539.7	1571.8	1628.1	1674.7	1692.4
50°	1448.1	1478.6	1538.1	1587.9	1608.8
52.5°	1354.9	1387.0	1446.5	1499.5	1522.0
55°	1260.0	1292.2	1354.9	1409.5	1433.6
57.5°	1163.6	1195.7	1260.0	1316.3	1345.2
60°	1064.0	1096.1	1163.6	1221.5	1250.4
62.5°	961.1	994.8	1064.0	1123.4	1154.0
65°	858.2	890.4	962.7	1027.0	1051.1
67.5°	755.4	787.5	858.2	922.5	951.4
70°	649.3	686.3	755.4	822.9	848.6
72.5°	538.4	580.2	649.3	720.0	745.7
75°	435.5	475.7	549.7	615.5	644.5
77.5°	334.3	377.7	446.8	514.3	543.2
80°	237.9	279.6	350.4	414.7	445.2
82.5°	151.1	188.0	258.8	316.6	339.1
85°	77.1	109.3	162.3	181.6	192.9
87.5°	22.5	38.6	57.9	72.3	80.4
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	16.6	18.2	18.5	17.0	18.7	17.4	19.0	19.3
	3H	18.0	19.5	18.4	19.9	20.2	19.1	20.6	19.4	20.9	21.3
	4H	18.6	20.1	19.0	20.4	20.8	19.9	21.4	20.3	21.7	22.1
	6H	19.1	20.4	19.5	20.7	21.1	20.7	22.0	21.1	22.4	22.8
	8H	19.2	20.4	19.6	20.8	21.2	21.0	22.2	21.4	22.6	23.0
	12H	19.2	20.4	19.6	20.8	21.2	21.2	22.4	21.6	22.8	23.2
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	21.8	22.8	22.3	23.2	23.7
	8H	20.4	21.3	20.9	21.8	22.2	22.2	23.1	22.7	23.5	24.0
	12H	20.5	21.3	21.0	21.8	22.3	22.5	23.3	22.9	23.7	24.2
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	23.0	22.8	23.5	24.0
	8H	21.1	21.7	21.6	22.2	22.7	22.8	23.4	23.3	23.9	24.4
	12H	21.2	21.8	21.7	22.3	22.9	23.1	23.7	23.6	24.2	24.7
12H	4H	20.3	21.1	20.8	21.6	22.0	21.3	22.1	21.7	22.5	23.0
	6H	21.0	21.7	21.5	22.1	22.7	22.3	23.0	22.9	23.5	24.0
	8H	21.3	21.9	21.8	22.3	22.9	22.9	23.5	23.4	24.0	24.5

(END OF REPORT)