

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: P1590014

Luminaire Tested: 24CZSP-SB-75VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590014
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

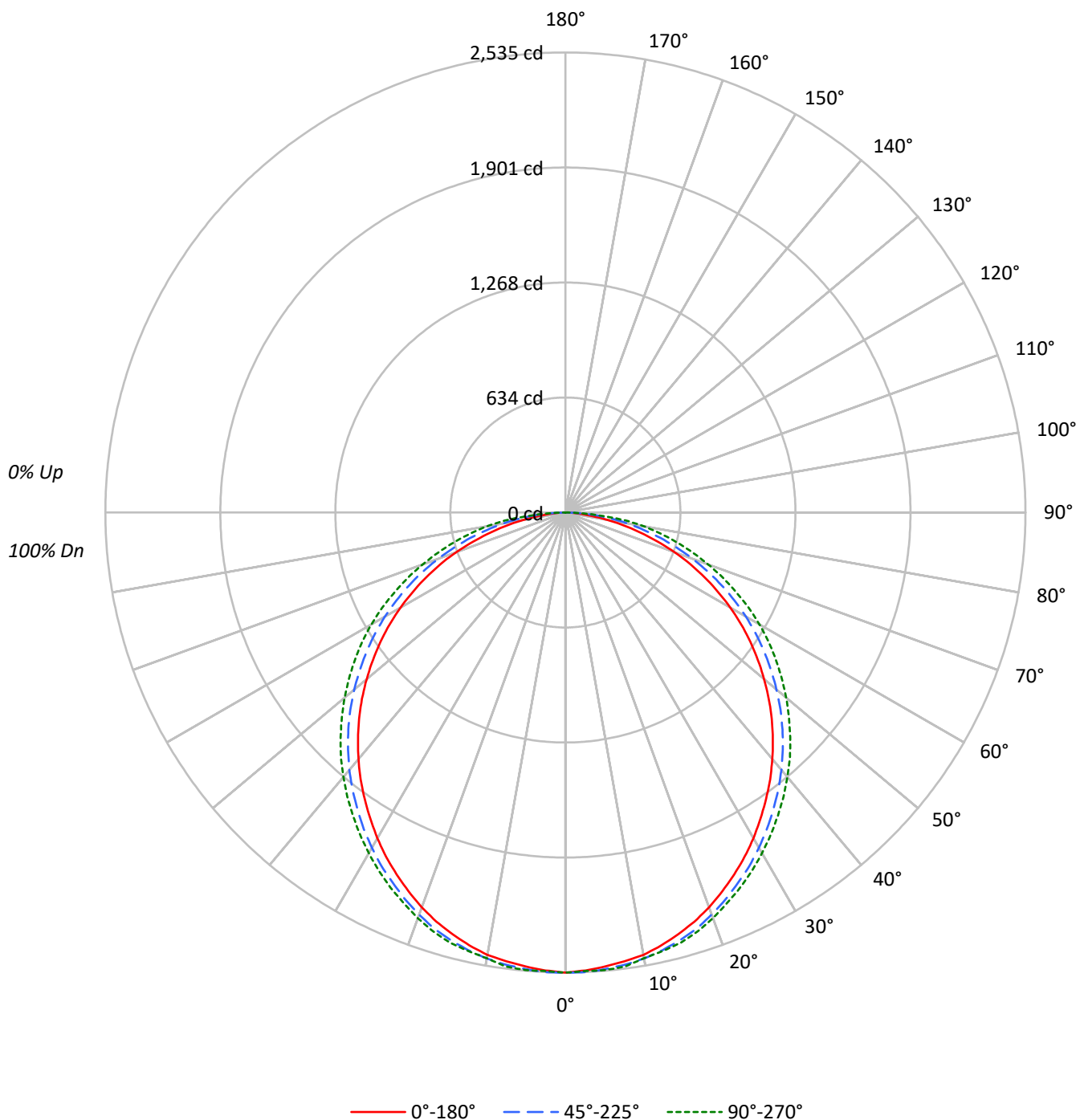
Lumens per Lamp: N/A
Luminaire Lumens: 7375.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3883	3883	3883
5°	3861	3883	3891
10°	3849	3881	3879
15°	3814	3869	3892
20°	3773	3843	3876
25°	3719	3805	3853
30°	3664	3771	3833
35°	3604	3735	3815
40°	3546	3702	3803
45°	3481	3663	3794
50°	3406	3618	3784
55°	3321	3571	3779
60°	3217	3518	3781
65°	3070	3444	3760
70°	2871	3339	3751
75°	2544	3211	3765
80°	2071	3051	3877
85°	1339	2815	3346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	3.3
10°-20°	687.1	9.3
20°-30°	1035.9	14.0
30°-40°	1246.4	16.9
40°-50°	1300.2	17.6
50°-60°	1191.7	16.2
60°-70°	935.8	12.7
70°-80°	569.5	7.7
80°-90°	168.5	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°	1962.9	26.6
0°-40°	3209.3	43.5
0°-60°	5701.2	77.3
0°-90°	7375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2535	2535	2535	2535	2535	
5°	2512	2527	2526	2523	2530	239
15°	2405	2429	2440	2443	2454	679
25°	2200	2231	2251	2266	2280	1014
35°	1928	1958	1997	2026	2040	1206
45°	1607	1640	1691	1731	1752	1239
55°	1244	1276	1337	1391	1415	1111
65°	847	879	950	1014	1038	838
75°	430	470	543	608	636	456
85°	76	108	160	179	190	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2535.3	2535.3	2535.3	2535.3	2535.3
2.5°	2525.8	2538.4	2535.3	2524.2	2528.9
5°	2511.5	2527.3	2525.8	2522.6	2530.5
7.5°	2494.0	2511.5	2513.1	2513.1	2522.6
10°	2475.0	2492.4	2495.6	2490.8	2494.0
12.5°	2443.3	2463.9	2470.2	2470.2	2475.0
15°	2405.2	2429.0	2440.1	2443.3	2454.4
17.5°	2363.9	2389.3	2403.6	2411.5	2421.0
20°	2314.7	2341.7	2357.6	2367.1	2378.2
22.5°	2259.2	2289.4	2306.8	2316.3	2329.0
25°	2200.5	2230.7	2251.3	2265.6	2279.8
27.5°	2138.6	2167.2	2195.8	2213.2	2225.9
30°	2072.0	2102.1	2132.3	2154.5	2167.2
32.5°	2000.6	2032.3	2067.2	2091.0	2105.3
35°	1927.6	1957.8	1997.4	2026.0	2040.3
37.5°	1853.1	1884.8	1926.0	1956.2	1973.6
40°	1773.7	1807.1	1851.5	1884.8	1902.2
42.5°	1691.2	1723.0	1772.2	1810.2	1830.9
45°	1607.2	1640.5	1691.2	1730.9	1751.5
47.5°	1519.9	1551.6	1607.2	1653.2	1670.6
50°	1429.5	1459.6	1518.3	1567.5	1588.1
52.5°	1337.4	1369.2	1427.9	1480.2	1502.4
55°	1243.8	1275.6	1337.4	1391.4	1415.2
57.5°	1148.6	1180.4	1243.8	1299.4	1327.9
60°	1050.3	1082.0	1148.6	1205.8	1234.3
62.5°	948.7	982.1	1050.3	1109.0	1139.1
65°	847.2	878.9	950.3	1013.8	1037.6
67.5°	745.7	777.4	847.2	910.7	939.2
70°	641.0	677.4	745.7	812.3	837.7
72.5°	531.5	572.7	641.0	710.8	736.1
75°	429.9	469.6	542.6	607.6	636.2
77.5°	330.0	372.8	441.1	507.7	536.2
80°	234.8	276.1	345.9	409.3	439.5
82.5°	149.1	185.6	255.4	312.5	334.8
85°	76.2	107.9	160.2	179.3	190.4
87.5°	22.2	38.1	57.1	71.4	79.3
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	16.9	18.6	17.3	18.9	19.2
	3H	18.0	19.5	18.4	19.8	20.2	19.0	20.5	19.4	20.9	21.2
	4H	18.6	20.0	19.0	20.4	20.7	19.9	21.3	20.3	21.7	22.0
	6H	19.0	20.3	19.4	20.7	21.1	20.6	22.0	21.0	22.3	22.7
	8H	19.1	20.4	19.5	20.8	21.2	20.9	22.2	21.4	22.6	23.0
	12H	19.2	20.4	19.6	20.8	21.2	21.1	22.3	21.6	22.7	23.1
4H	2H	17.0	18.4	17.4	18.7	19.1	17.6	19.0	18.0	19.3	19.7
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.3	21.5	21.9
	4H	19.7	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	22.7	22.2	23.2	23.6
	8H	20.4	21.3	20.8	21.7	22.2	22.2	23.0	22.6	23.5	24.0
	12H	20.5	21.3	20.9	21.7	22.2	22.4	23.2	22.9	23.7	24.2
8H	4H	20.2	21.0	20.6	21.5	22.0	21.2	22.1	21.6	22.5	23.0
	6H	20.8	21.6	21.3	22.1	22.5	22.2	23.0	22.7	23.5	23.9
	8H	21.0	21.7	21.5	22.2	22.7	22.7	23.4	23.2	23.9	24.4
	12H	21.2	21.8	21.7	22.2	22.8	23.1	23.7	23.6	24.1	24.7
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	23.4	24.0
	8H	21.2	21.8	21.7	22.3	22.9	22.8	23.4	23.3	23.9	24.5

(END OF REPORT)