

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: P1589975

Luminaire Tested: 24CZSP-SB-70VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589975
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-70VHE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

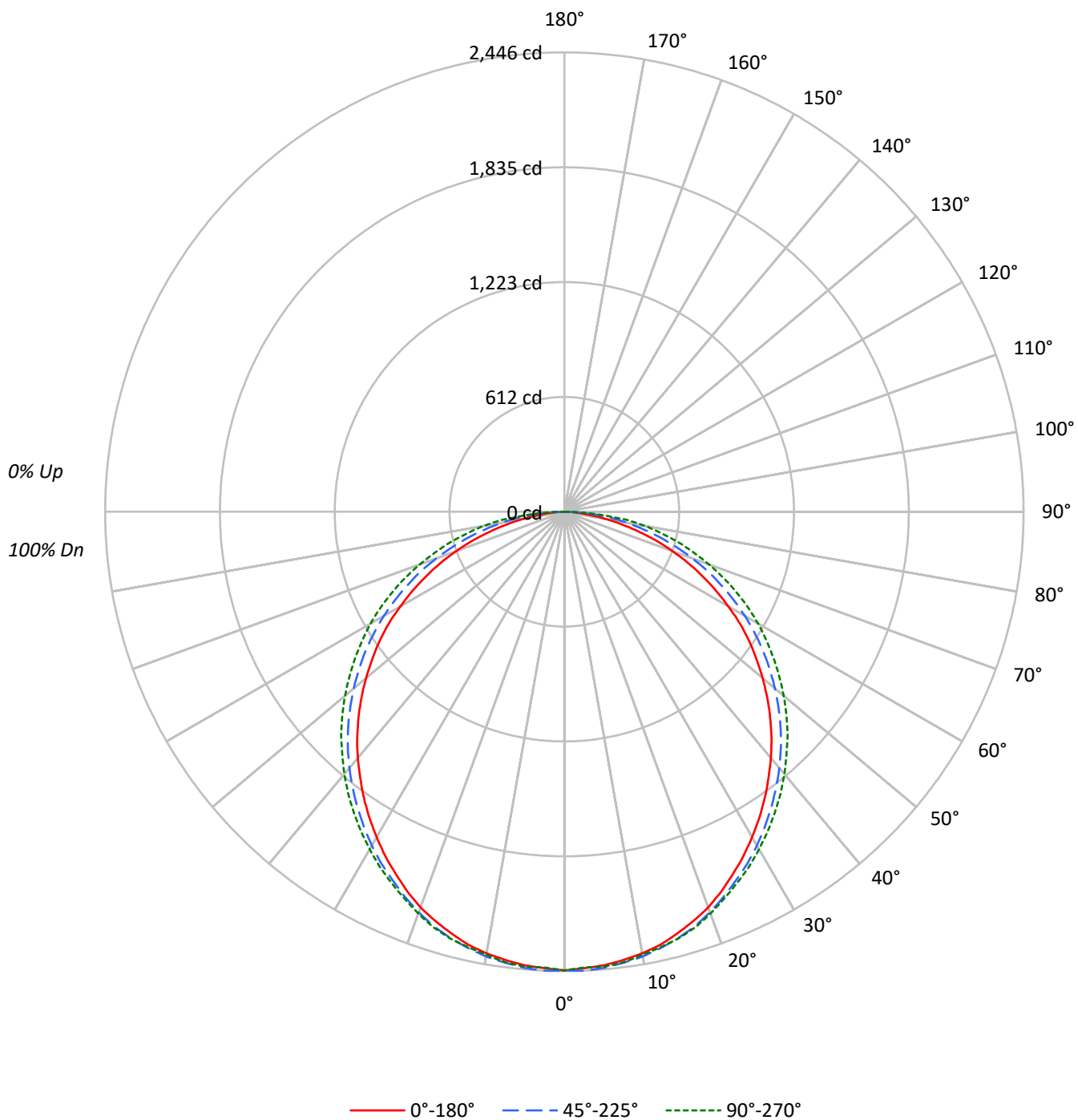
Lumens per Lamp: N/A
Luminaire Lumens: 7126.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.3
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

TEST NUMBER: P1589975

CATALOG NUMBER: 24CZSP-SB-70VHE-L835

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°	3740	3740	3740
5°	3726	3747	3738
10°	3713	3739	3725
15°	3685	3724	3728
20°	3653	3697	3710
25°	3594	3658	3683
30°	3537	3628	3668
35°	3480	3593	3655
40°	3423	3561	3646
45°	3358	3528	3643
50°	3285	3490	3633
55°	3210	3451	3633
60°	3091	3400	3654
65°	2946	3334	3657
70°	2749	3242	3668
75°	2446	3124	3731
80°	2008	2993	3871
85°	1325	2810	3499

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3964 cd/sqm

TEST NUMBER: P1589975

CATALOG NUMBER: 24CZSP-SB-70VHE-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	3.2
10°-20°	661.1	9.3
20°-30°	996.5	14.0
30°-40°	1200.0	16.8
40°-50°	1253.7	17.6
50°-60°	1151.8	16.2
60°-70°	907.0	12.7
70°-80°	556.1	7.8
80°-90°	168.6	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°	1888.6	26.5
0°-40°	3088.7	43.3
0°-60°	5494.2	77.1
0°-90°	7126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2424	2428	2437	2434	2431	230
15°	2324	2333	2348	2357	2351	656
25°	2127	2140	2164	2187	2179	980
35°	1861	1885	1922	1956	1955	1164
45°	1550	1584	1629	1674	1682	1196
55°	1202	1237	1292	1348	1360	1072
65°	813	855	920	982	1009	804
75°	413	462	528	591	630	439
85°	75	112	160	178	199	97
90°	0	0	0	0	0	

TEST NUMBER: P1589975

CATALOG NUMBER: 24CZSP-SB-70VHE-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.8	2441.8	2441.8	2441.8	2441.8
2.5°	2432.7	2438.8	2446.3	2434.3	2428.2
5°	2423.7	2428.2	2437.3	2434.3	2431.2
7.5°	2407.1	2410.1	2422.2	2422.2	2419.2
10°	2387.5	2393.5	2404.1	2402.6	2395.0
12.5°	2361.9	2366.4	2378.5	2378.5	2373.9
15°	2324.2	2333.2	2348.3	2357.3	2351.3
17.5°	2284.9	2294.0	2313.6	2322.6	2319.6
20°	2241.2	2248.7	2268.4	2281.9	2275.9
22.5°	2186.9	2196.0	2218.6	2233.7	2227.6
25°	2126.6	2140.2	2164.3	2186.9	2179.4
27.5°	2066.3	2081.3	2111.5	2134.1	2131.1
30°	1999.9	2019.5	2051.2	2079.8	2073.8
32.5°	1932.0	1954.6	1987.8	2018.0	2016.5
35°	1861.1	1885.3	1921.5	1956.2	1954.6
37.5°	1785.7	1814.4	1852.1	1889.8	1891.3
40°	1711.8	1739.0	1781.2	1821.9	1823.4
42.5°	1633.4	1662.0	1707.3	1749.5	1751.0
45°	1550.4	1583.6	1628.9	1674.1	1681.7
47.5°	1466.0	1500.7	1547.4	1595.7	1604.7
50°	1378.5	1414.7	1464.5	1515.8	1524.8
52.5°	1289.5	1327.2	1378.5	1429.8	1443.4
55°	1202.0	1236.7	1292.5	1348.3	1360.4
57.5°	1110.0	1141.7	1202.0	1260.9	1275.9
60°	1009.0	1048.2	1110.0	1168.9	1193.0
62.5°	911.0	953.2	1016.5	1075.4	1102.5
65°	812.9	855.2	920.0	981.8	1009.0
67.5°	713.4	757.1	826.5	885.3	915.5
70°	613.8	657.6	723.9	787.3	819.0
72.5°	514.3	561.1	625.9	690.8	722.4
75°	413.3	461.5	527.9	591.2	630.4
77.5°	318.2	365.0	431.3	496.2	529.4
80°	227.7	274.5	339.3	404.2	438.9
82.5°	144.8	188.5	251.9	306.2	337.8
85°	75.4	111.6	159.9	178.0	199.1
87.5°	22.6	43.7	61.8	69.4	86.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589975

CATALOG NUMBER: 24CZSP-SB-70VHE-L835

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	20.8	21.1
	4H	18.5	19.9	18.9	20.3	20.6	19.8	21.2	20.2	21.6	22.0
	6H	18.9	20.2	19.3	20.6	21.0	20.6	21.9	21.0	22.3	22.7
	8H	19.0	20.3	19.4	20.7	21.1	20.9	22.2	21.3	22.6	23.0
	12H	19.1	20.3	19.5	20.6	21.1	21.1	22.3	21.5	22.7	23.1
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	20.1	19.3	20.5	20.9	19.8	21.0	20.2	21.4	21.8
	4H	19.6	20.7	20.0	21.1	21.5	20.8	21.9	21.2	22.3	22.7
	6H	20.2	21.1	20.6	21.5	22.0	21.7	22.7	22.2	23.1	23.6
	8H	20.3	21.2	20.8	21.6	22.1	22.1	23.0	22.6	23.5	23.9
	12H	20.4	21.2	20.9	21.7	22.1	22.4	23.2	22.9	23.7	24.1
8H	4H	20.1	21.0	20.5	21.4	21.9	21.1	22.0	21.6	22.4	22.9
	6H	20.7	21.5	21.2	22.0	22.4	22.2	22.9	22.7	23.4	23.9
	8H	21.0	21.6	21.5	22.1	22.6	22.7	23.3	23.2	23.9	24.3
	12H	21.1	21.7	21.6	22.2	22.8	23.1	23.6	23.6	24.1	24.7
12H	4H	20.1	21.0	20.6	21.4	21.9	21.1	21.9	21.6	22.4	22.9
	6H	20.9	21.6	21.4	22.0	22.6	22.3	22.9	22.8	23.4	23.9
	8H	21.2	21.8	21.7	22.2	22.8	22.8	23.4	23.3	23.9	24.4

(END OF REPORT)