

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: P1589854

Luminaire Tested: 24CZSP-SB-57-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589854
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-57-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

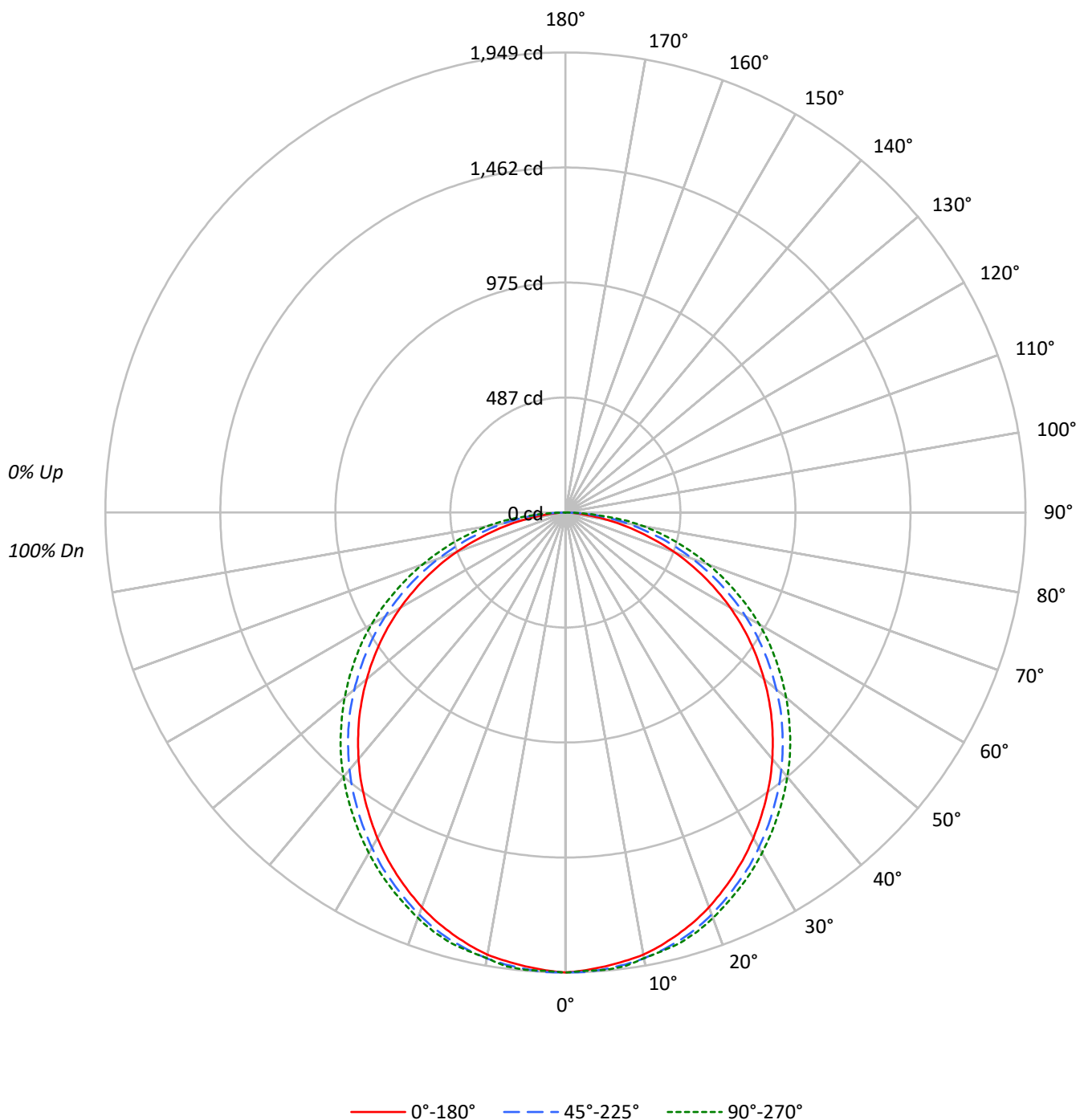
Lumens per Lamp: N/A
Luminaire Lumens: 5669.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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°	2985	2985	2985
5°	2968	2985	2991
10°	2959	2983	2982
15°	2932	2974	2991
20°	2900	2954	2980
25°	2859	2924	2962
30°	2817	2899	2946
35°	2770	2871	2932
40°	2726	2846	2924
45°	2676	2816	2916
50°	2618	2781	2909
55°	2553	2745	2905
60°	2473	2705	2906
65°	2360	2647	2891
70°	2206	2567	2883
75°	1956	2468	2894
80°	1592	2345	2979
85°	1028	2165	2571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	3.3
10°-20°	528.1	9.3
20°-30°	796.3	14.0
30°-40°	958.1	16.9
40°-50°	999.4	17.6
50°-60°	916.0	16.2
60°-70°	719.3	12.7
70°-80°	437.8	7.7
80°-90°	129.5	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°	1508.8	26.6
0°-40°	2466.9	43.5
0°-60°	4382.3	77.3
0°-90°	5669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1930	1943	1942	1939	1945	183
15°	1849	1867	1876	1878	1887	522
25°	1692	1715	1730	1742	1752	779
35°	1482	1505	1535	1557	1568	927
45°	1235	1261	1300	1330	1346	953
55°	956	980	1028	1070	1088	854
65°	651	676	730	779	798	644
75°	330	361	417	467	489	350
85°	58	83	123	138	146	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.8	1948.8	1948.8	1948.8	1948.8
2.5°	1941.5	1951.2	1948.8	1940.3	1943.9
5°	1930.5	1942.7	1941.5	1939.0	1945.1
7.5°	1917.1	1930.5	1931.7	1931.7	1939.0
10°	1902.5	1915.9	1918.3	1914.7	1917.1
12.5°	1878.1	1893.9	1898.8	1898.8	1902.5
15°	1848.8	1867.1	1875.6	1878.1	1886.6
17.5°	1817.1	1836.6	1847.6	1853.7	1861.0
20°	1779.3	1800.0	1812.2	1819.5	1828.1
22.5°	1736.6	1759.8	1773.2	1780.5	1790.3
25°	1691.5	1714.7	1730.5	1741.5	1752.5
27.5°	1643.9	1665.9	1687.8	1701.2	1711.0
30°	1592.7	1615.9	1639.0	1656.1	1665.9
32.5°	1537.8	1562.2	1589.0	1607.3	1618.3
35°	1481.7	1504.9	1535.4	1557.3	1568.3
37.5°	1424.4	1448.8	1480.5	1503.7	1517.1
40°	1363.4	1389.0	1423.2	1448.8	1462.2
42.5°	1300.0	1324.4	1362.2	1391.5	1407.3
45°	1235.4	1261.0	1300.0	1330.5	1346.4
47.5°	1168.3	1192.7	1235.4	1270.7	1284.2
50°	1098.8	1122.0	1167.1	1204.9	1220.7
52.5°	1028.1	1052.5	1097.6	1137.8	1154.9
55°	956.1	980.5	1028.1	1069.5	1087.8
57.5°	882.9	907.3	956.1	998.8	1020.7
60°	807.3	831.7	882.9	926.8	948.8
62.5°	729.3	754.9	807.3	852.5	875.6
65°	651.2	675.6	730.5	779.3	797.6
67.5°	573.2	597.6	651.2	700.0	722.0
70°	492.7	520.7	573.2	624.4	643.9
72.5°	408.5	440.2	492.7	546.3	565.9
75°	330.5	361.0	417.1	467.1	489.0
77.5°	253.7	286.6	339.0	390.2	412.2
80°	180.5	212.2	265.9	314.6	337.8
82.5°	114.6	142.7	196.3	240.2	257.3
85°	58.5	82.9	123.2	137.8	146.3
87.5°	17.1	29.3	43.9	54.9	61.0
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	15.3	17.0	15.7	17.3	17.6	16.0	17.7	16.4	18.0	18.3
	3H	17.1	18.6	17.4	18.9	19.3	18.1	19.6	18.5	19.9	20.3
	4H	17.7	19.1	18.1	19.5	19.8	19.0	20.4	19.4	20.7	21.1
	6H	18.1	19.4	18.5	19.8	20.2	19.7	21.0	20.1	21.4	21.8
	8H	18.2	19.5	18.6	19.8	20.2	20.0	21.3	20.4	21.7	22.1
	12H	18.2	19.5	18.7	19.8	20.3	20.2	21.4	20.6	21.8	22.2
4H	2H	16.1	17.5	16.5	17.8	18.2	16.6	18.1	17.0	18.4	18.8
	3H	18.1	19.3	18.5	19.7	20.0	19.0	20.1	19.4	20.5	20.9
	4H	18.8	19.9	19.2	20.3	20.7	20.0	21.1	20.4	21.5	21.9
	6H	19.3	20.3	19.8	20.7	21.2	20.9	21.8	21.3	22.3	22.7
	8H	19.5	20.4	19.9	20.8	21.3	21.2	22.1	21.7	22.6	23.0
	12H	19.6	20.4	20.0	20.8	21.3	21.5	22.3	22.0	22.8	23.2
8H	4H	19.2	20.1	19.7	20.6	21.0	20.3	21.2	20.7	21.6	22.1
	6H	19.9	20.7	20.4	21.1	21.6	21.3	22.1	21.8	22.6	23.0
	8H	20.1	20.8	20.6	21.3	21.8	21.8	22.5	22.3	23.0	23.5
	12H	20.3	20.8	20.8	21.3	21.9	22.1	22.7	22.7	23.2	23.8
12H	4H	19.3	20.1	19.8	20.6	21.1	20.3	21.1	20.8	21.6	22.0
	6H	20.0	20.7	20.6	21.2	21.7	21.4	22.1	21.9	22.5	23.1
	8H	20.3	20.9	20.8	21.4	21.9	21.9	22.5	22.4	23.0	23.6

(END OF REPORT)