

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: P1589853

Luminaire Tested: 24CZSP-SB-57-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589853
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-57-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

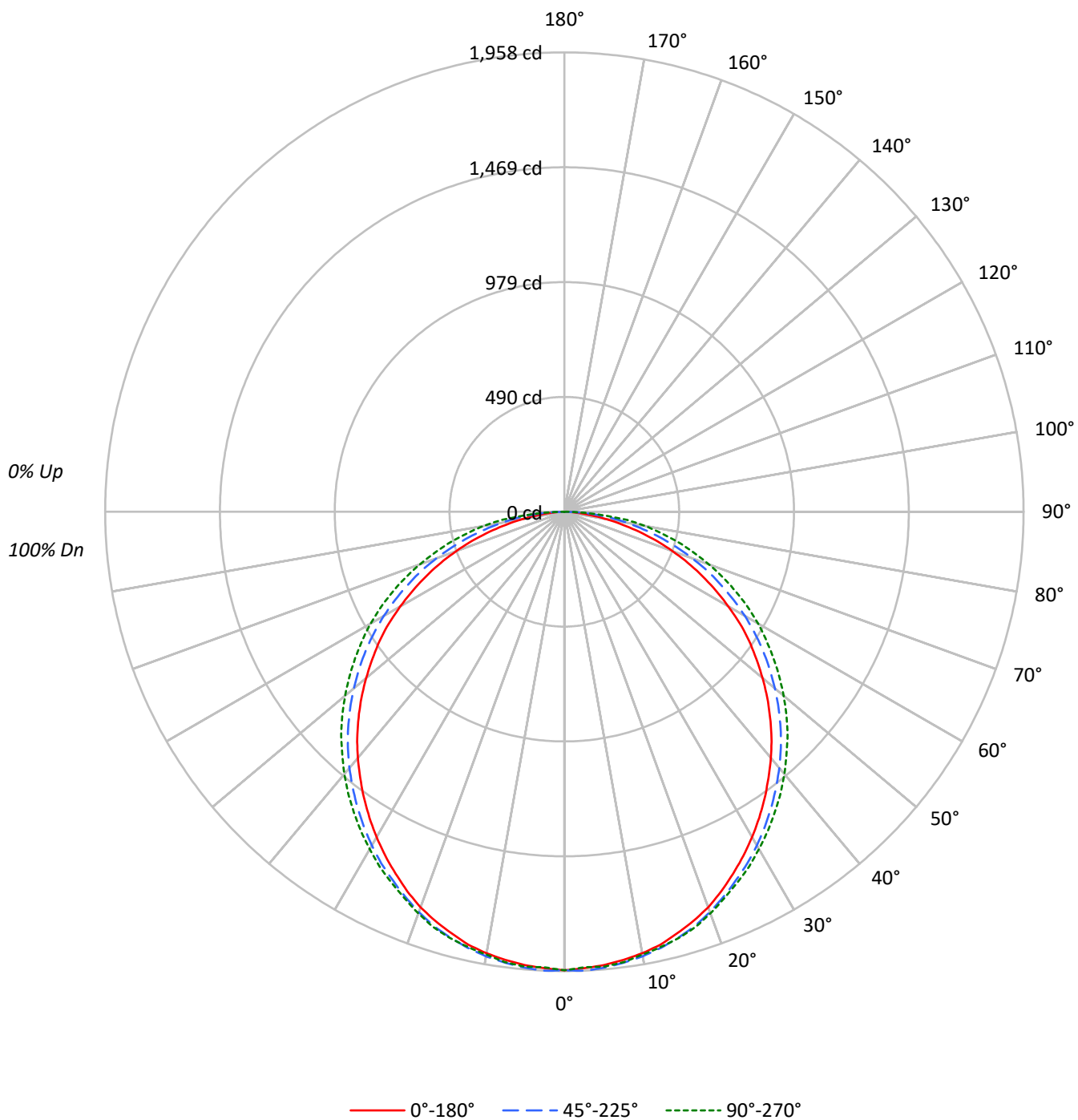
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5703.0 lumens
Efficiency: N/A
Efficacy: 139.4 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): 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	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°	2993	2993	2993
5°	2982	2999	2991
10°	2972	2992	2981
15°	2949	2980	2984
20°	2924	2959	2969
25°	2876	2927	2948
30°	2831	2903	2935
35°	2785	2875	2925
40°	2739	2850	2918
45°	2688	2824	2915
50°	2629	2793	2908
55°	2569	2762	2907
60°	2474	2721	2925
65°	2358	2668	2926
70°	2200	2595	2935
75°	1957	2500	2986
80°	1608	2396	3098
85°	1061	2248	2799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3173 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	3.2
10°-20°	529.1	9.3
20°-30°	797.5	14.0
30°-40°	960.4	16.8
40°-50°	1003.4	17.6
50°-60°	921.8	16.2
60°-70°	725.9	12.7
70°-80°	445.1	7.8
80°-90°	134.9	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°	1511.5	26.5
0°-40°	2471.9	43.3
0°-60°	4397.1	77.1
0°-90°	5703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1940	1943	1951	1948	1946	184
15°	1860	1867	1879	1887	1882	525
25°	1702	1713	1732	1750	1744	785
35°	1490	1509	1538	1566	1564	932
45°	1241	1267	1304	1340	1346	957
55°	962	990	1034	1079	1089	858
65°	651	684	736	786	808	643
75°	331	369	422	473	504	352
85°	60	89	128	142	159	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	1946.9	1951.8	1957.8	1948.2	1943.3
5°	1939.7	1943.3	1950.6	1948.2	1945.7
7.5°	1926.4	1928.8	1938.5	1938.5	1936.1
10°	1910.7	1915.6	1924.0	1922.8	1916.8
12.5°	1890.2	1893.8	1903.5	1903.5	1899.9
15°	1860.0	1867.3	1879.4	1886.6	1881.8
17.5°	1828.7	1835.9	1851.6	1858.8	1856.4
20°	1793.7	1799.7	1815.4	1826.2	1821.4
22.5°	1750.2	1757.4	1775.5	1787.6	1782.8
25°	1701.9	1712.8	1732.1	1750.2	1744.2
27.5°	1653.6	1665.7	1689.8	1708.0	1705.5
30°	1600.5	1616.2	1641.6	1664.5	1659.7
32.5°	1546.2	1564.3	1590.9	1615.0	1613.8
35°	1489.5	1508.8	1537.8	1565.5	1564.3
37.5°	1429.1	1452.1	1482.2	1512.4	1513.6
40°	1370.0	1391.7	1425.5	1458.1	1459.3
42.5°	1307.2	1330.2	1366.4	1400.2	1401.4
45°	1240.8	1267.4	1303.6	1339.8	1345.8
47.5°	1173.2	1201.0	1238.4	1277.0	1284.3
50°	1103.2	1132.2	1172.0	1213.1	1220.3
52.5°	1032.0	1062.2	1103.2	1144.3	1155.1
55°	962.0	989.8	1034.4	1079.1	1088.7
57.5°	888.4	913.7	962.0	1009.1	1021.2
60°	807.5	838.9	888.4	935.5	954.8
62.5°	729.0	762.8	813.5	860.6	882.3
65°	650.6	684.4	736.3	785.8	807.5
67.5°	570.9	605.9	661.5	708.5	732.7
70°	491.3	526.3	579.4	630.1	655.4
72.5°	411.6	449.0	500.9	552.8	578.2
75°	330.7	369.4	422.5	473.2	504.5
77.5°	254.7	292.1	345.2	397.1	423.7
80°	182.3	219.7	271.6	323.5	351.2
82.5°	115.9	150.9	201.6	245.0	270.4
85°	60.4	89.3	127.9	142.4	159.3
87.5°	18.1	35.0	49.5	55.5	68.8
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	16.1	17.7	16.4	18.0	18.4
	3H	17.1	18.6	17.5	18.9	19.3	18.2	19.7	18.5	20.0	20.4
	4H	17.7	19.1	18.1	19.5	19.9	19.0	20.5	19.4	20.8	21.2
	6H	18.1	19.4	18.5	19.8	20.2	19.8	21.1	20.2	21.5	21.9
	8H	18.2	19.5	18.7	19.9	20.3	20.1	21.4	20.6	21.8	22.2
	12H	18.3	19.5	18.7	19.9	20.3	20.3	21.6	20.8	21.9	22.4
4H	2H	16.1	17.5	16.5	17.9	18.2	16.7	18.1	17.1	18.4	18.8
	3H	18.1	19.3	18.5	19.7	20.1	19.0	20.2	19.4	20.6	21.0
	4H	18.8	19.9	19.3	20.3	20.8	20.0	21.1	20.5	21.5	22.0
	6H	19.4	20.3	19.8	20.8	21.2	21.0	21.9	21.4	22.4	22.8
	8H	19.5	20.4	20.0	20.9	21.3	21.3	22.2	21.8	22.7	23.1
	12H	19.6	20.4	20.1	20.9	21.4	21.6	22.4	22.1	22.9	23.4
8H	4H	19.3	20.2	19.8	20.6	21.1	20.3	21.2	20.8	21.7	22.1
	6H	20.0	20.7	20.5	21.2	21.7	21.4	22.2	21.9	22.7	23.1
	8H	20.2	20.9	20.7	21.4	21.8	21.9	22.6	22.4	23.1	23.6
	12H	20.3	20.9	20.8	21.4	22.0	22.3	22.9	22.8	23.4	23.9
12H	4H	19.4	20.2	19.9	20.7	21.1	20.4	21.2	20.8	21.6	22.1
	6H	20.1	20.8	20.6	21.2	21.8	21.5	22.2	22.0	22.6	23.2
	8H	20.4	21.0	20.9	21.5	22.0	22.0	22.6	22.5	23.1	23.7

(END OF REPORT)