

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: P1589877

Luminaire Tested: 24CZSP-SB-57HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589877
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-57HE-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

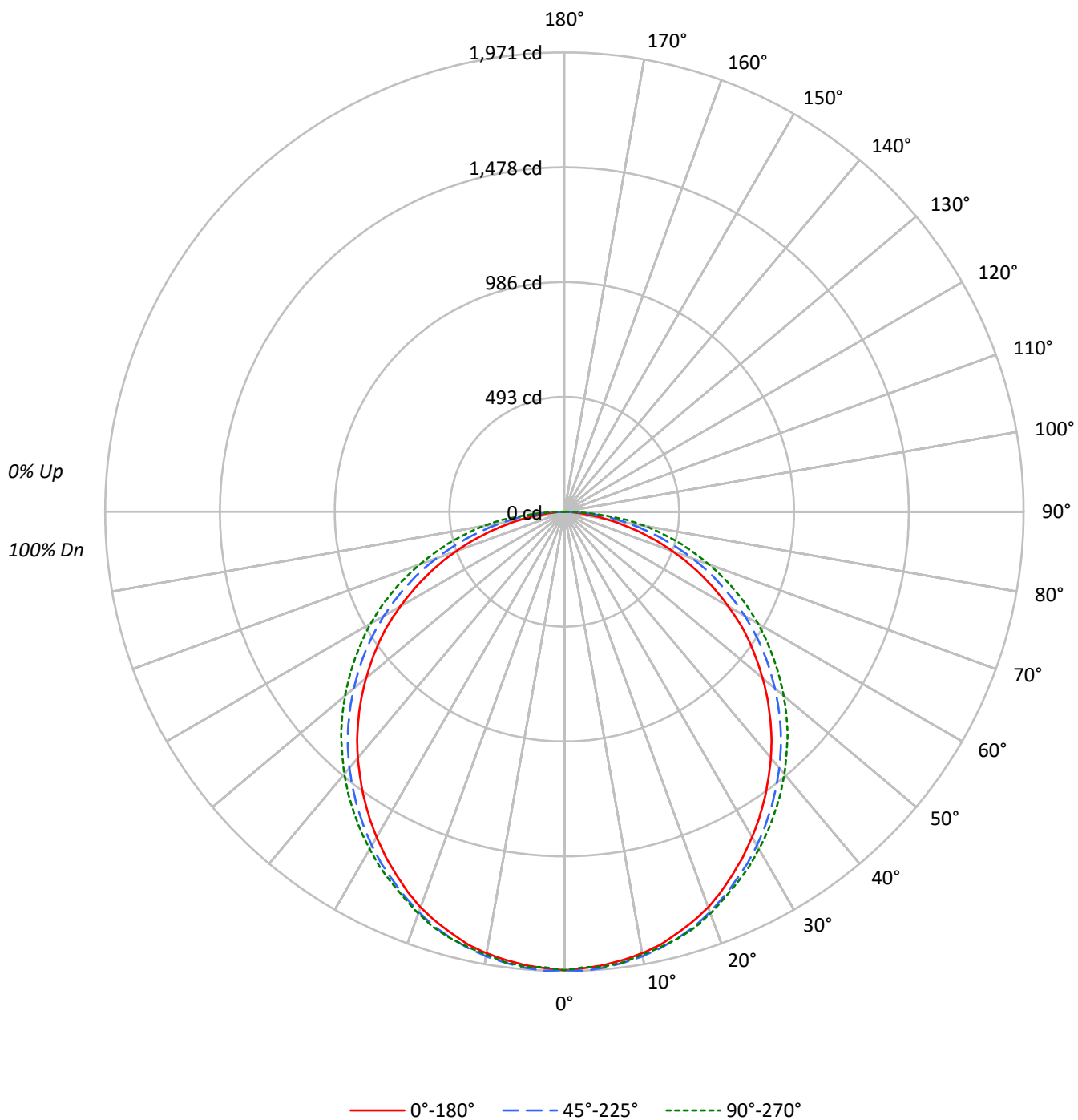
Lumens per Lamp: N/A
Luminaire Lumens: 5741.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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°	3013	3013	3013
5°	3002	3019	3011
10°	2992	3012	3001
15°	2969	3000	3004
20°	2943	2979	2989
25°	2895	2947	2967
30°	2850	2923	2955
35°	2804	2894	2944
40°	2757	2869	2937
45°	2706	2843	2935
50°	2646	2811	2927
55°	2586	2781	2927
60°	2490	2739	2944
65°	2373	2686	2946
70°	2214	2612	2955
75°	1970	2517	3006
80°	1619	2411	3119
85°	1068	2263	2819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.2
10°-20°	532.6	9.3
20°-30°	802.8	14.0
30°-40°	966.8	16.8
40°-50°	1010.1	17.6
50°-60°	928.0	16.2
60°-70°	730.8	12.7
70°-80°	448.0	7.8
80°-90°	135.8	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°	1521.6	26.5
0°-40°	2488.4	43.3
0°-60°	4426.4	77.1
0°-90°	5741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1953	1956	1964	1961	1959	185
15°	1872	1880	1892	1899	1894	528
25°	1713	1724	1744	1762	1756	790
35°	1499	1519	1548	1576	1575	938
45°	1249	1276	1312	1349	1355	963
55°	968	996	1041	1086	1096	864
65°	655	689	741	791	813	647
75°	333	372	425	476	508	354
85°	61	90	129	143	160	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1959.9	1964.8	1970.9	1961.1	1956.3
5°	1952.6	1956.3	1963.6	1961.1	1958.7
7.5°	1939.3	1941.7	1951.4	1951.4	1949.0
10°	1923.5	1928.3	1936.8	1935.6	1929.5
12.5°	1902.8	1906.5	1916.2	1916.2	1912.5
15°	1872.4	1879.7	1891.9	1899.2	1894.3
17.5°	1840.8	1848.1	1863.9	1871.2	1868.8
20°	1805.6	1811.7	1827.5	1838.4	1833.6
22.5°	1761.9	1769.2	1787.4	1799.5	1794.7
25°	1713.3	1724.2	1743.6	1761.9	1755.8
27.5°	1664.7	1676.8	1701.1	1719.3	1716.9
30°	1611.2	1627.0	1652.5	1675.6	1670.7
32.5°	1556.5	1574.7	1601.5	1625.8	1624.6
35°	1499.4	1518.8	1548.0	1576.0	1574.7
37.5°	1438.7	1461.7	1492.1	1522.5	1523.7
40°	1379.1	1401.0	1435.0	1467.8	1469.0
42.5°	1315.9	1339.0	1375.5	1409.5	1410.7
45°	1249.1	1275.8	1312.3	1348.7	1354.8
47.5°	1181.1	1209.0	1246.7	1285.6	1292.8
50°	1110.6	1139.7	1179.8	1221.2	1228.4
52.5°	1038.9	1069.3	1110.6	1151.9	1162.8
55°	968.4	996.4	1041.3	1086.3	1096.0
57.5°	894.3	919.8	968.4	1015.8	1028.0
60°	812.9	844.5	894.3	941.7	961.1
62.5°	733.9	767.9	819.0	866.4	888.2
65°	654.9	688.9	741.2	791.0	812.9
67.5°	574.7	610.0	665.9	713.3	737.6
70°	494.5	529.8	583.2	634.3	659.8
72.5°	414.3	452.0	504.3	556.5	582.0
75°	332.9	371.8	425.3	476.3	507.9
77.5°	256.4	294.0	347.5	399.8	426.5
80°	183.5	221.1	273.4	325.6	353.6
82.5°	116.6	151.9	202.9	246.7	272.2
85°	60.8	89.9	128.8	143.4	160.4
87.5°	18.2	35.2	49.8	55.9	69.3
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	15.3	17.0	15.7	17.3	17.6	16.1	17.8	16.5	18.1	18.4
	3H	17.1	18.6	17.5	18.9	19.3	18.2	19.7	18.6	20.0	20.4
	4H	17.7	19.2	18.1	19.5	19.9	19.1	20.5	19.5	20.8	21.2
	6H	18.1	19.5	18.6	19.8	20.2	19.8	21.2	20.2	21.5	21.9
	8H	18.3	19.5	18.7	19.9	20.3	20.2	21.4	20.6	21.8	22.2
	12H	18.3	19.5	18.7	19.9	20.3	20.4	21.6	20.8	22.0	22.4
4H	2H	16.1	17.5	16.5	17.9	18.3	16.7	18.1	17.1	18.5	18.8
	3H	18.1	19.3	18.5	19.7	20.1	19.0	20.2	19.4	20.6	21.0
	4H	18.9	19.9	19.3	20.4	20.8	20.1	21.1	20.5	21.6	22.0
	6H	19.4	20.4	19.9	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	21.4	22.3	21.8	22.7	23.2
	12H	19.6	20.4	20.1	20.9	21.4	21.6	22.5	22.1	22.9	23.4
8H	4H	19.3	20.2	19.8	20.6	21.1	20.4	21.3	20.8	21.7	22.2
	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	21.9	21.9	22.6	22.4	23.1	23.6
	12H	20.4	21.0	20.9	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	20.9	21.7	22.1
	6H	20.1	20.8	20.7	21.3	21.8	21.5	22.2	22.0	22.6	23.2
	8H	20.4	21.0	20.9	21.5	22.1	22.0	22.6	22.6	23.1	23.7

(END OF REPORT)