

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: P1589876

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589876
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-57HE-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

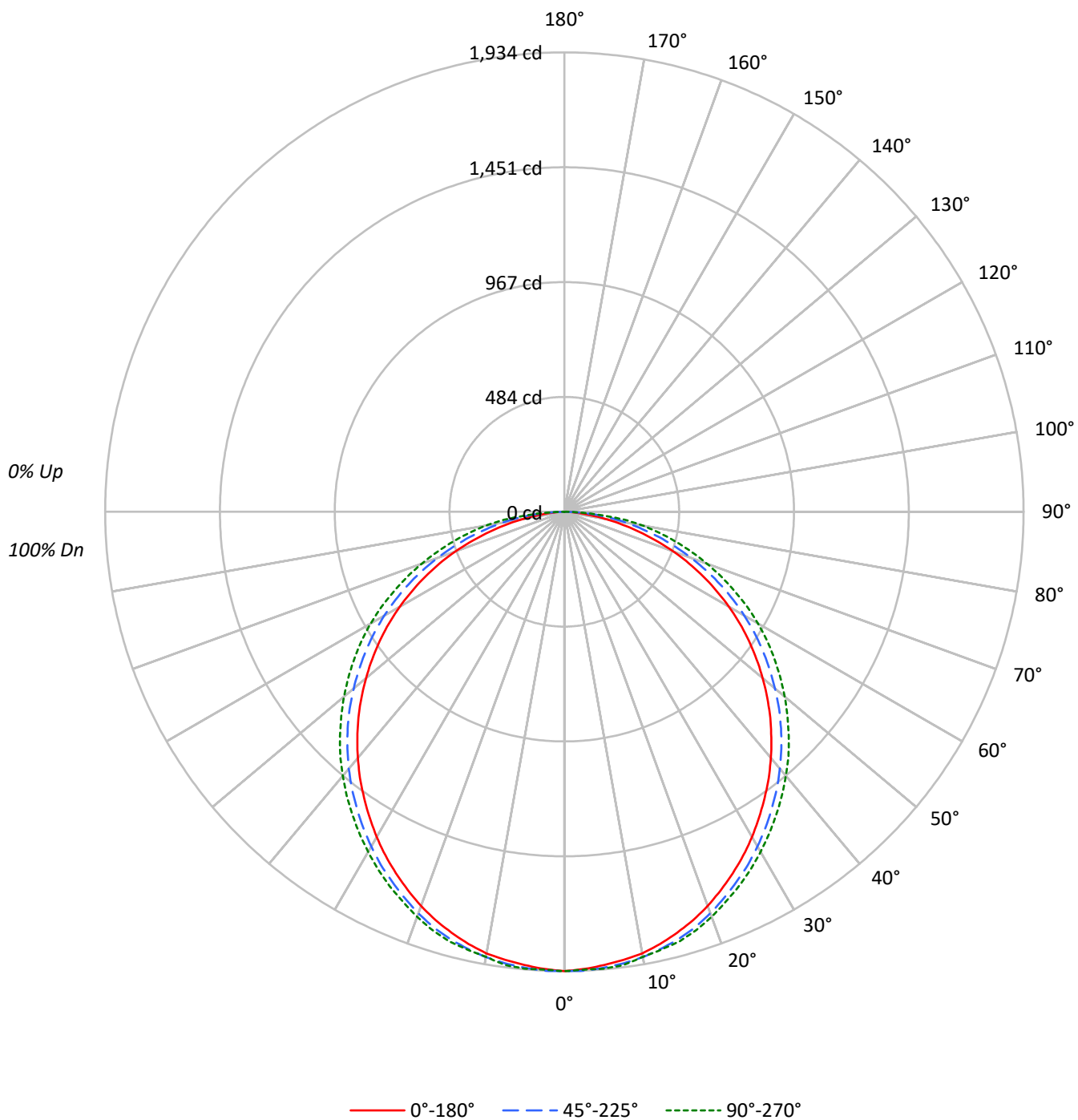
Lumens per Lamp: N/A
Luminaire Lumens: 5626.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2962	2962	2962
5°	2946	2962	2968
10°	2936	2961	2959
15°	2909	2952	2969
20°	2878	2931	2957
25°	2837	2902	2939
30°	2795	2877	2924
35°	2749	2849	2910
40°	2705	2824	2901
45°	2656	2795	2894
50°	2598	2760	2887
55°	2534	2725	2883
60°	2454	2684	2884
65°	2342	2627	2869
70°	2190	2547	2862
75°	1941	2449	2872
80°	1580	2327	2957
85°	1021	2147	2552

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2997 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	3.3
10°-20°	524.1	9.3
20°-30°	790.2	14.0
30°-40°	950.8	16.9
40°-50°	991.8	17.6
50°-60°	909.1	16.2
60°-70°	713.9	12.7
70°-80°	434.5	7.7
80°-90°	128.5	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°	1497.4	26.6
0°-40°	2448.2	43.5
0°-60°	4349.1	77.3
0°-90°	5626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1916	1928	1927	1924	1930	182
15°	1835	1853	1861	1864	1872	518
25°	1679	1702	1717	1728	1739	774
35°	1470	1494	1524	1546	1556	920
45°	1226	1251	1290	1320	1336	945
55°	949	973	1020	1061	1080	848
65°	646	670	725	773	792	639
75°	328	358	414	464	485	348
85°	58	82	122	137	145	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1926.8	1936.4	1934.0	1925.6	1929.2
5°	1915.9	1928.0	1926.8	1924.3	1930.4
7.5°	1902.6	1915.9	1917.1	1917.1	1924.3
10°	1888.0	1901.3	1903.8	1900.1	1902.6
12.5°	1863.8	1879.6	1884.4	1884.4	1888.0
15°	1834.8	1852.9	1861.4	1863.8	1872.3
17.5°	1803.3	1822.7	1833.6	1839.6	1846.9
20°	1765.8	1786.4	1798.5	1805.7	1814.2
22.5°	1723.4	1746.4	1759.7	1767.0	1776.7
25°	1678.7	1701.7	1717.4	1728.3	1739.2
27.5°	1631.5	1653.2	1675.0	1688.3	1698.0
30°	1580.6	1603.6	1626.6	1643.6	1653.2
32.5°	1526.2	1550.4	1577.0	1595.1	1606.0
35°	1470.5	1493.5	1523.7	1545.5	1556.4
37.5°	1413.6	1437.8	1469.3	1492.3	1505.6
40°	1353.1	1378.5	1412.4	1437.8	1451.1
42.5°	1290.2	1314.4	1351.9	1380.9	1396.7
45°	1226.0	1251.4	1290.2	1320.4	1336.1
47.5°	1159.4	1183.7	1226.0	1261.1	1274.4
50°	1090.5	1113.5	1158.2	1195.8	1211.5
52.5°	1020.3	1044.5	1089.3	1129.2	1146.1
55°	948.9	973.1	1020.3	1061.4	1079.6
57.5°	876.2	900.4	948.9	991.2	1013.0
60°	801.2	825.4	876.2	919.8	941.6
62.5°	723.7	749.2	801.2	846.0	869.0
65°	646.3	670.5	725.0	773.4	791.5
67.5°	568.8	593.0	646.3	694.7	716.5
70°	489.0	516.8	568.8	619.7	639.0
72.5°	405.4	436.9	489.0	542.2	561.6
75°	328.0	358.2	413.9	463.5	485.3
77.5°	251.7	284.4	336.5	387.3	409.1
80°	179.1	210.6	263.8	312.3	335.2
82.5°	113.8	141.6	194.9	238.4	255.4
85°	58.1	82.3	122.2	136.8	145.2
87.5°	16.9	29.0	43.6	54.5	60.5
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	16.9	15.6	17.2	17.6	16.0	17.7	16.4	18.0	18.3
	3H	17.0	18.5	17.4	18.9	19.2	18.1	19.6	18.5	19.9	20.3
	4H	17.7	19.1	18.1	19.4	19.8	19.0	20.4	19.3	20.7	21.1
	6H	18.1	19.4	18.5	19.8	20.1	19.7	21.0	20.1	21.4	21.8
	8H	18.2	19.4	18.6	19.8	20.2	20.0	21.3	20.4	21.6	22.0
	12H	18.2	19.4	18.6	19.8	20.2	20.2	21.4	20.6	21.8	22.2
4H	2H	16.0	17.5	16.4	17.8	18.2	16.6	18.0	17.0	18.4	18.8
	3H	18.0	19.2	18.4	19.6	20.0	18.9	20.1	19.3	20.5	20.9
	4H	18.8	19.9	19.2	20.3	20.7	19.9	21.0	20.4	21.4	21.9
	6H	19.3	20.3	19.8	20.7	21.1	20.8	21.8	21.3	22.2	22.7
	8H	19.4	20.3	19.9	20.8	21.2	21.2	22.1	21.7	22.5	23.0
	12H	19.5	20.3	20.0	20.8	21.3	21.5	22.3	21.9	22.7	23.2
8H	4H	19.2	20.1	19.7	20.6	21.0	20.2	21.1	20.7	21.6	22.0
	6H	19.9	20.6	20.4	21.1	21.6	21.3	22.0	21.8	22.5	23.0
	8H	20.1	20.8	20.6	21.3	21.7	21.8	22.4	22.3	22.9	23.4
	12H	20.2	20.8	20.7	21.3	21.9	22.1	22.7	22.6	23.2	23.8
12H	4H	19.3	20.1	19.8	20.6	21.0	20.3	21.1	20.7	21.5	22.0
	6H	20.0	20.7	20.5	21.1	21.7	21.4	22.0	21.9	22.5	23.0
	8H	20.3	20.9	20.8	21.4	21.9	21.9	22.5	22.4	23.0	23.5

(END OF REPORT)