

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: P1589880

Luminaire Tested: 24CZSP-SB-57HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589880
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

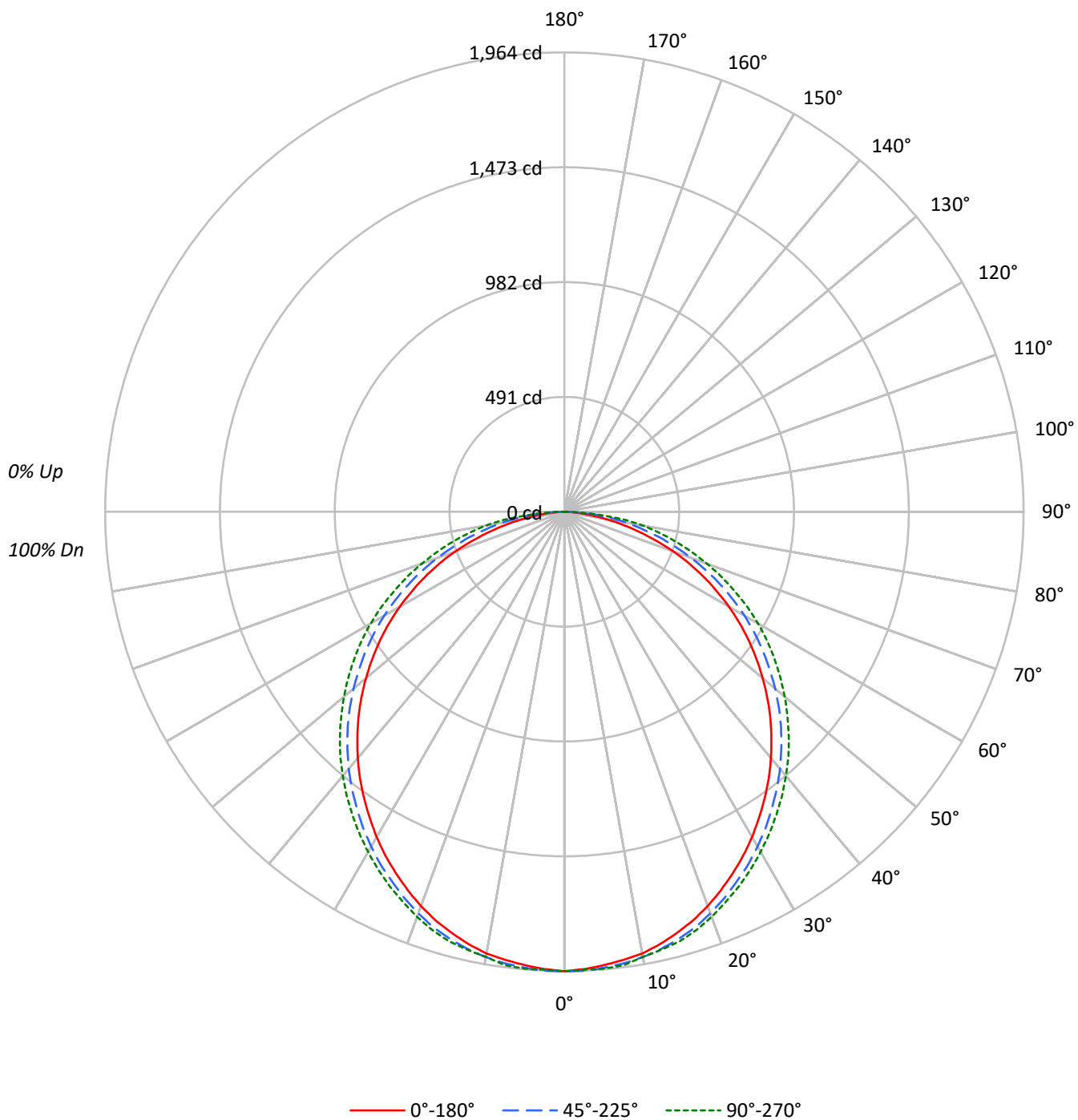
Lumens per Lamp: N/A
Luminaire Lumens: 5714.0 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3009	3009	3009
5°	2992	3009	3014
10°	2982	3007	3005
15°	2955	2998	3015
20°	2923	2977	3003
25°	2881	2948	2985
30°	2839	2922	2970
35°	2793	2894	2956
40°	2748	2868	2947
45°	2697	2838	2939
50°	2639	2803	2932
55°	2573	2767	2928
60°	2493	2726	2929
65°	2379	2668	2913
70°	2224	2587	2906
75°	1971	2488	2917
80°	1604	2364	3003
85°	1037	2183	2592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3044 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	3.3
10°-20°	532.3	9.3
20°-30°	802.6	14.0
30°-40°	965.7	16.9
40°-50°	1007.3	17.6
50°-60°	923.3	16.2
60°-70°	725.0	12.7
70°-80°	441.3	7.7
80°-90°	130.5	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°	1520.8	26.6
0°-40°	2486.5	43.5
0°-60°	4417.1	77.3
0°-90°	5714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1946	1958	1957	1954	1961	185
15°	1864	1882	1890	1893	1902	526
25°	1705	1728	1744	1755	1766	786
35°	1494	1517	1548	1570	1581	935
45°	1245	1271	1310	1341	1357	960
55°	964	988	1036	1078	1096	861
65°	656	681	736	786	804	649
75°	333	364	420	471	493	353
85°	59	84	124	139	148	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1956.9	1966.7	1964.3	1955.7	1959.4
5°	1945.8	1958.1	1956.9	1954.4	1960.6
7.5°	1932.3	1945.8	1947.1	1947.1	1954.4
10°	1917.6	1931.1	1933.5	1929.9	1932.3
12.5°	1893.0	1909.0	1913.9	1913.9	1917.6
15°	1863.5	1881.9	1890.5	1893.0	1901.6
17.5°	1831.5	1851.2	1862.3	1868.4	1875.8
20°	1793.4	1814.3	1826.6	1834.0	1842.6
22.5°	1750.4	1773.7	1787.3	1794.6	1804.5
25°	1704.9	1728.3	1744.2	1755.3	1766.4
27.5°	1657.0	1679.1	1701.2	1714.7	1724.6
30°	1605.3	1628.7	1652.1	1669.3	1679.1
32.5°	1550.0	1574.6	1601.7	1620.1	1631.2
35°	1493.5	1516.8	1547.6	1569.7	1580.8
37.5°	1435.7	1460.3	1492.3	1515.6	1529.1
40°	1374.3	1400.1	1434.5	1460.3	1473.8
42.5°	1310.3	1334.9	1373.0	1402.5	1418.5
45°	1245.2	1271.0	1310.3	1341.1	1357.0
47.5°	1177.6	1202.2	1245.2	1280.8	1294.4
50°	1107.5	1130.9	1176.4	1214.5	1230.4
52.5°	1036.2	1060.8	1106.3	1146.9	1164.1
55°	963.7	988.3	1036.2	1078.0	1096.5
57.5°	889.9	914.5	963.7	1006.7	1028.8
60°	813.7	838.3	889.9	934.2	956.3
62.5°	735.1	760.9	813.7	859.2	882.6
65°	656.4	681.0	736.3	785.5	803.9
67.5°	577.7	602.3	656.4	705.6	727.7
70°	496.6	524.9	577.7	629.4	649.0
72.5°	411.8	443.7	496.6	550.7	570.4
75°	333.1	363.8	420.4	470.8	492.9
77.5°	255.7	288.9	341.7	393.3	415.5
80°	181.9	213.9	268.0	317.1	340.5
82.5°	115.5	143.8	197.9	242.2	259.4
85°	59.0	83.6	124.2	138.9	147.5
87.5°	17.2	29.5	44.3	55.3	61.5
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	17.0	15.7	17.3	17.6	16.1	17.7	16.4	18.0	18.3
	3H	17.1	18.6	17.5	18.9	19.3	18.1	19.6	18.5	20.0	20.3
	4H	17.7	19.1	18.1	19.5	19.9	19.0	20.4	19.4	20.8	21.1
	6H	18.1	19.4	18.5	19.8	20.2	19.8	21.1	20.2	21.4	21.8
	8H	18.2	19.5	18.6	19.9	20.3	20.0	21.3	20.5	21.7	22.1
	12H	18.3	19.5	18.7	19.9	20.3	20.2	21.4	20.7	21.8	22.3
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	20.4	21.5	21.9
	6H	19.4	20.3	19.8	20.7	21.2	20.9	21.9	21.4	22.3	22.7
	8H	19.5	20.4	20.0	20.8	21.3	21.3	22.2	21.7	22.6	23.1
	12H	19.6	20.4	20.1	20.9	21.3	21.5	22.3	22.0	22.8	23.3
8H	4H	19.3	20.2	19.7	20.6	21.1	20.3	21.2	20.8	21.6	22.1
	6H	19.9	20.7	20.4	21.2	21.6	21.4	22.1	21.8	22.6	23.1
	8H	20.1	20.8	20.7	21.3	21.8	21.8	22.5	22.3	23.0	23.5
	12H	20.3	20.9	20.8	21.4	21.9	22.2	22.8	22.7	23.3	23.8
12H	4H	19.4	20.2	19.8	20.6	21.1	20.3	21.1	20.8	21.6	22.1
	6H	20.1	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	22.0	21.9	22.5	22.4	23.0	23.6

(END OF REPORT)