

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: P1589874

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589874
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

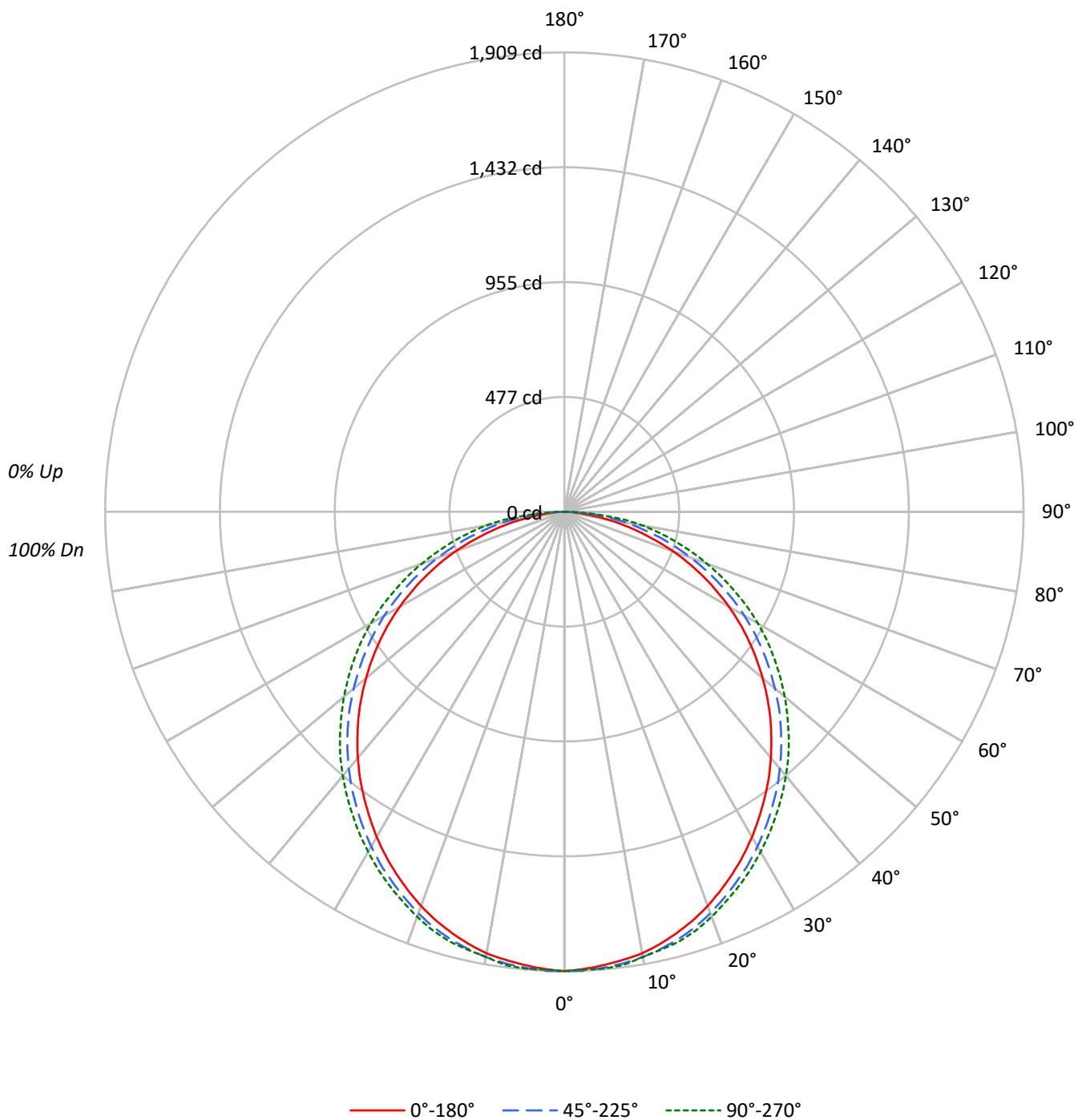
Lumens per Lamp: N/A
Luminaire Lumens: 5553.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2924	2924	2924
5°	2907	2924	2929
10°	2898	2922	2921
15°	2872	2913	2930
20°	2841	2893	2919
25°	2800	2865	2901
30°	2759	2839	2886
35°	2714	2812	2872
40°	2670	2787	2864
45°	2621	2758	2857
50°	2565	2724	2849
55°	2501	2689	2845
60°	2422	2649	2847
65°	2312	2593	2832
70°	2161	2514	2824
75°	1916	2417	2835
80°	1559	2297	2919
85°	1007	2121	2518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.3
10°-20°	517.3	9.3
20°-30°	780.0	14.0
30°-40°	938.5	16.9
40°-50°	978.9	17.6
50°-60°	897.3	16.2
60°-70°	704.6	12.7
70°-80°	428.8	7.7
80°-90°	126.9	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°	1477.9	26.6
0°-40°	2416.4	43.5
0°-60°	4292.7	77.3
0°-90°	5553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1891	1903	1902	1899	1905	180
15°	1811	1829	1837	1840	1848	511
25°	1657	1680	1695	1706	1717	764
35°	1451	1474	1504	1526	1536	908
45°	1210	1235	1273	1303	1319	933
55°	936	960	1007	1048	1066	837
65°	638	662	716	763	781	631
75°	324	354	408	458	479	343
85°	57	81	121	135	143	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1908.9	1908.9	1908.9	1908.9	1908.9
2.5°	1901.8	1911.3	1908.9	1900.6	1904.2
5°	1891.0	1903.0	1901.8	1899.4	1905.3
7.5°	1877.9	1891.0	1892.2	1892.2	1899.4
10°	1863.5	1876.7	1879.1	1875.5	1877.9
12.5°	1839.6	1855.2	1860.0	1860.0	1863.5
15°	1811.0	1828.9	1837.3	1839.6	1848.0
17.5°	1779.9	1799.0	1809.8	1815.8	1822.9
20°	1742.9	1763.2	1775.1	1782.3	1790.7
22.5°	1701.1	1723.8	1736.9	1744.1	1753.6
25°	1656.9	1679.6	1695.1	1705.9	1716.6
27.5°	1610.3	1631.8	1653.3	1666.4	1676.0
30°	1560.1	1582.8	1605.5	1622.2	1631.8
32.5°	1506.4	1530.2	1556.5	1574.4	1585.2
35°	1451.4	1474.1	1504.0	1525.5	1536.2
37.5°	1395.3	1419.2	1450.2	1472.9	1486.0
40°	1335.5	1360.6	1394.1	1419.2	1432.3
42.5°	1273.4	1297.3	1334.3	1363.0	1378.5
45°	1210.1	1235.2	1273.4	1303.3	1318.8
47.5°	1144.4	1168.3	1210.1	1244.7	1257.9
50°	1076.3	1099.0	1143.2	1180.2	1195.8
52.5°	1007.0	1030.9	1075.1	1114.5	1131.3
55°	936.5	960.4	1007.0	1047.6	1065.6
57.5°	864.9	888.8	936.5	978.4	999.9
60°	790.8	814.7	864.9	907.9	929.4
62.5°	714.4	739.4	790.8	835.0	857.7
65°	637.9	661.8	715.5	763.3	781.3
67.5°	561.4	585.3	637.9	685.7	707.2
70°	482.6	510.1	561.4	611.6	630.7
72.5°	400.2	431.2	482.6	535.2	554.3
75°	323.7	353.6	408.5	457.5	479.0
77.5°	248.5	280.7	332.1	382.3	403.8
80°	176.8	207.9	260.4	308.2	330.9
82.5°	112.3	139.8	192.3	235.3	252.1
85°	57.3	81.2	120.7	135.0	143.3
87.5°	16.7	28.7	43.0	53.8	59.7
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	15.2	16.9	15.6	17.2	17.5	16.0	17.6	16.3	17.9	18.3
	3H	17.0	18.5	17.4	18.8	19.2	18.0	19.5	18.4	19.9	20.2
	4H	17.6	19.0	18.0	19.4	19.8	18.9	20.3	19.3	20.7	21.0
	6H	18.0	19.3	18.4	19.7	20.1	19.7	21.0	20.1	21.3	21.7
	8H	18.1	19.4	18.6	19.8	20.2	19.9	21.2	20.4	21.6	22.0
	12H	18.2	19.4	18.6	19.8	20.2	20.1	21.3	20.6	21.7	22.2
4H	2H	16.0	17.4	16.4	17.8	18.1	16.6	18.0	17.0	18.3	18.7
	3H	18.0	19.2	18.4	19.6	20.0	18.9	20.1	19.3	20.5	20.9
	4H	18.7	19.8	19.2	20.2	20.7	19.9	21.0	20.3	21.4	21.8
	6H	19.3	20.2	19.7	20.6	21.1	20.8	21.8	21.3	22.2	22.6
	8H	19.4	20.3	19.9	20.7	21.2	21.2	22.1	21.6	22.5	23.0
	12H	19.5	20.3	20.0	20.8	21.2	21.4	22.2	21.9	22.7	23.2
8H	4H	19.2	20.1	19.6	20.5	21.0	20.2	21.1	20.7	21.5	22.0
	6H	19.8	20.6	20.3	21.1	21.5	21.3	22.0	21.7	22.5	23.0
	8H	20.0	20.7	20.6	21.2	21.7	21.7	22.4	22.2	22.9	23.4
	12H	20.2	20.8	20.7	21.3	21.8	22.1	22.7	22.6	23.2	23.7
12H	4H	19.3	20.1	19.7	20.5	21.0	20.2	21.0	20.7	21.5	22.0
	6H	20.0	20.6	20.5	21.1	21.6	21.3	22.0	21.8	22.4	23.0
	8H	20.2	20.8	20.7	21.3	21.9	21.8	22.4	22.3	22.9	23.5

(END OF REPORT)