

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: P1589887

Luminaire Tested: 24CZSP-SB-57HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589887
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-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

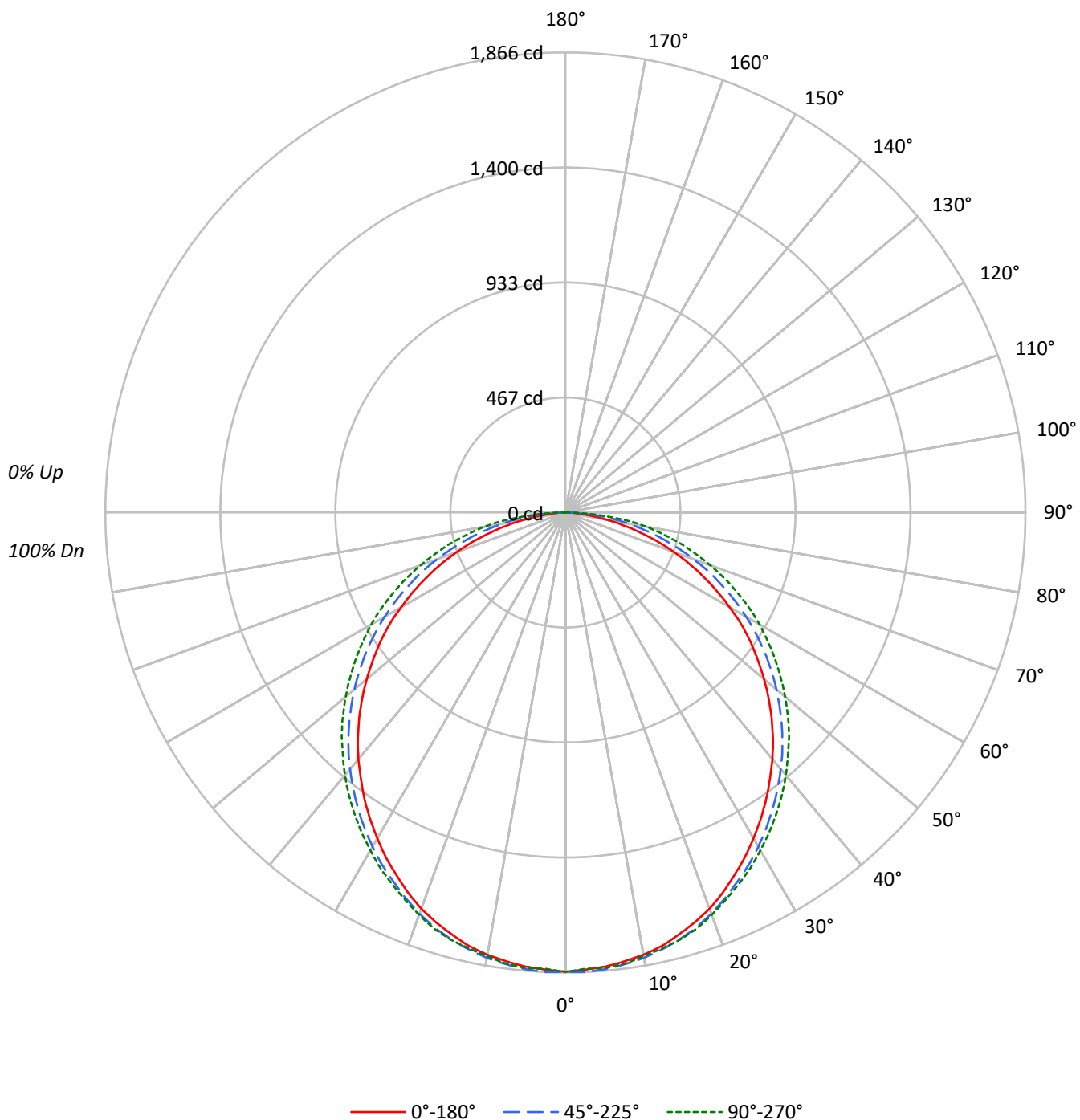
Lumens per Lamp: N/A
Luminaire Lumens: 5437.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2853	2853	2853
5°	2843	2859	2852
10°	2833	2853	2842
15°	2812	2841	2845
20°	2787	2821	2830
25°	2742	2791	2810
30°	2699	2768	2798
35°	2655	2741	2789
40°	2611	2717	2782
45°	2562	2692	2779
50°	2506	2663	2772
55°	2449	2633	2772
60°	2358	2594	2788
65°	2248	2544	2790
70°	2097	2474	2798
75°	1866	2384	2846
80°	1533	2284	2954
85°	1010	2144	2669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3025 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.2
10°-20°	504.4	9.3
20°-30°	760.3	14.0
30°-40°	915.6	16.8
40°-50°	956.6	17.6
50°-60°	878.8	16.2
60°-70°	692.1	12.7
70°-80°	424.3	7.8
80°-90°	128.7	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°	1441.0	26.5
0°-40°	2356.6	43.3
0°-60°	4192.0	77.1
0°-90°	5437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1849	1853	1860	1857	1855	176
15°	1773	1780	1792	1799	1794	500
25°	1622	1633	1651	1669	1663	748
35°	1420	1438	1466	1492	1491	888
45°	1183	1208	1243	1277	1283	912
55°	917	944	986	1029	1038	818
65°	620	652	702	749	770	613
75°	315	352	403	451	481	335
85°	58	85	122	136	152	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.0	1863.0	1863.0	1863.0	1863.0
2.5°	1856.1	1860.7	1866.5	1857.3	1852.7
5°	1849.2	1852.7	1859.6	1857.3	1855.0
7.5°	1836.6	1838.9	1848.1	1848.1	1845.8
10°	1821.6	1826.2	1834.3	1833.1	1827.4
12.5°	1802.1	1805.5	1814.7	1814.7	1811.3
15°	1773.3	1780.2	1791.7	1798.6	1794.0
17.5°	1743.4	1750.3	1765.2	1772.1	1769.8
20°	1710.0	1715.7	1730.7	1741.1	1736.5
22.5°	1668.6	1675.5	1692.7	1704.2	1699.6
25°	1622.5	1632.9	1651.3	1668.6	1662.8
27.5°	1576.5	1588.0	1611.0	1628.3	1626.0
30°	1525.9	1540.8	1565.0	1586.9	1582.3
32.5°	1474.1	1491.4	1516.7	1539.7	1538.5
35°	1420.0	1438.4	1466.0	1492.5	1491.4
37.5°	1362.5	1384.3	1413.1	1441.9	1443.0
40°	1306.1	1326.8	1359.0	1390.1	1391.2
42.5°	1246.2	1268.1	1302.6	1334.9	1336.0
45°	1183.0	1208.3	1242.8	1277.3	1283.1
47.5°	1118.5	1145.0	1180.7	1217.5	1224.4
50°	1051.8	1079.4	1117.4	1156.5	1163.4
52.5°	983.9	1012.6	1051.8	1090.9	1101.3
55°	917.1	943.6	986.2	1028.8	1038.0
57.5°	846.9	871.1	917.1	962.0	973.5
60°	769.8	799.8	846.9	891.8	910.2
62.5°	695.0	727.3	775.6	820.5	841.2
65°	620.2	652.5	701.9	749.1	769.8
67.5°	544.3	577.7	630.6	675.5	698.5
70°	468.3	501.7	552.4	600.7	624.8
72.5°	392.4	428.1	477.6	527.0	551.2
75°	315.3	352.1	402.8	451.1	481.0
77.5°	242.8	278.5	329.1	378.6	403.9
80°	173.8	209.4	258.9	308.4	334.9
82.5°	110.5	143.8	192.2	233.6	257.8
85°	57.5	85.2	122.0	135.8	151.9
87.5°	17.3	33.4	47.2	52.9	65.6
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	16.8	15.5	17.1	17.4	15.9	17.6	16.3	17.9	18.2
	3H	16.9	18.4	17.3	18.8	19.1	18.0	19.5	18.4	19.8	20.2
	4H	17.5	19.0	17.9	19.3	19.7	18.9	20.3	19.3	20.7	21.0
	6H	18.0	19.3	18.4	19.6	20.0	19.6	21.0	20.1	21.3	21.7
	8H	18.1	19.3	18.5	19.7	20.1	20.0	21.2	20.4	21.6	22.0
	12H	18.1	19.3	18.5	19.7	20.1	20.2	21.4	20.6	21.8	22.2
4H	2H	15.9	17.3	16.3	17.7	18.1	16.5	17.9	16.9	18.3	18.7
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.7	19.8	19.1	20.2	20.6	19.9	21.0	20.3	21.4	21.8
	6H	19.2	20.2	19.7	20.6	21.1	20.8	21.8	21.3	22.2	22.6
	8H	19.4	20.2	19.8	20.7	21.2	21.2	22.1	21.6	22.5	23.0
	12H	19.4	20.2	19.9	20.7	21.2	21.5	22.3	21.9	22.7	23.2
8H	4H	19.1	20.0	19.6	20.5	20.9	20.2	21.1	20.6	21.5	22.0
	6H	19.8	20.5	20.3	21.0	21.5	21.3	22.0	21.7	22.5	23.0
	8H	20.0	20.7	20.5	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	23.8
12H	4H	19.2	20.0	19.7	20.5	21.0	20.2	21.0	20.7	21.5	21.9
	6H	19.9	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	21.9	22.5	22.4	22.9	23.5

(END OF REPORT)