

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: P1589885

Luminaire Tested: 24CZSP-SB-57HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589885
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

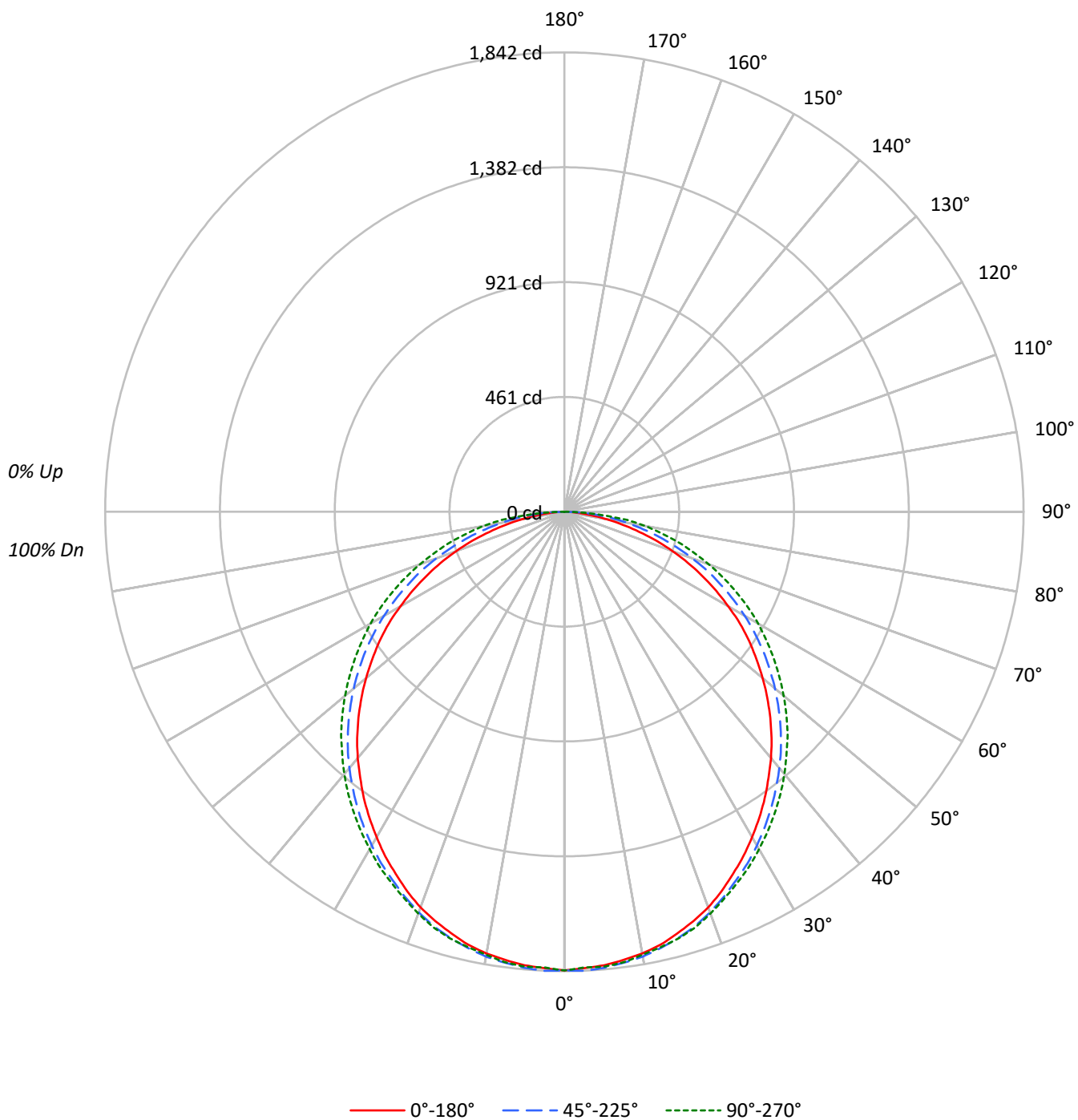
Lumens per Lamp: N/A
Luminaire Lumens: 5367.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1589885

CATALOG NUMBER: 24CZSP-SB-57HE-L935

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°	2817	2817	2817
5°	2807	2822	2815
10°	2797	2816	2805
15°	2776	2804	2808
20°	2751	2785	2794
25°	2707	2755	2774
30°	2664	2732	2762
35°	2621	2706	2753
40°	2578	2682	2746
45°	2529	2657	2744
50°	2474	2628	2736
55°	2417	2600	2736
60°	2328	2561	2752
65°	2219	2511	2754
70°	2070	2442	2762
75°	1842	2353	2810
80°	1513	2254	2916
85°	998	2116	2634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2985 cd/sqm

TEST NUMBER: P1589885

CATALOG NUMBER: 24CZSP-SB-57HE-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	3.2
10°-20°	497.9	9.3
20°-30°	750.5	14.0
30°-40°	903.8	16.8
40°-50°	944.3	17.6
50°-60°	867.5	16.2
60°-70°	683.1	12.7
70°-80°	418.8	7.8
80°-90°	127.0	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°	1422.4	26.5
0°-40°	2326.3	43.3
0°-60°	4138.0	77.1
0°-90°	5367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1825	1829	1836	1833	1831	173
15°	1750	1757	1769	1775	1771	494
25°	1602	1612	1630	1647	1641	738
35°	1402	1420	1447	1473	1472	877
45°	1168	1193	1227	1261	1267	901
55°	905	932	974	1016	1025	808
65°	612	644	693	740	760	605
75°	311	348	398	445	475	331
85°	57	84	120	134	150	73
90°	0	0	0	0	0	

TEST NUMBER: P1589885

CATALOG NUMBER: 24CZSP-SB-57HE-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1839.1	1839.1	1839.1	1839.1	1839.1
2.5°	1832.2	1836.8	1842.5	1833.4	1828.8
5°	1825.4	1828.8	1835.6	1833.4	1831.1
7.5°	1812.9	1815.2	1824.3	1824.3	1822.0
10°	1798.2	1802.7	1810.7	1809.5	1803.8
12.5°	1778.9	1782.3	1791.3	1791.3	1787.9
15°	1750.5	1757.3	1768.6	1775.4	1770.9
17.5°	1720.9	1727.7	1742.5	1749.3	1747.0
20°	1688.0	1693.7	1708.4	1718.6	1714.1
22.5°	1647.1	1653.9	1670.9	1682.3	1677.8
25°	1601.6	1611.9	1630.0	1647.1	1641.4
27.5°	1556.2	1567.6	1590.3	1607.3	1605.1
30°	1506.2	1521.0	1544.9	1566.4	1561.9
32.5°	1455.1	1472.2	1497.1	1519.9	1518.7
35°	1401.7	1419.9	1447.2	1473.3	1472.2
37.5°	1344.9	1366.5	1394.9	1423.3	1424.4
40°	1289.3	1309.7	1341.5	1372.2	1373.3
42.5°	1230.2	1251.8	1285.9	1317.7	1318.8
45°	1167.7	1192.7	1226.8	1260.9	1266.6
47.5°	1104.1	1130.2	1165.5	1201.8	1208.6
50°	1038.2	1065.5	1103.0	1141.6	1148.4
52.5°	971.2	999.6	1038.2	1076.9	1087.1
55°	905.3	931.5	973.5	1015.5	1024.6
57.5°	836.0	859.9	905.3	949.6	961.0
60°	759.9	789.5	836.0	880.3	898.5
62.5°	686.1	717.9	765.6	809.9	830.4
65°	612.3	644.1	692.9	739.5	759.9
67.5°	537.3	570.2	622.5	666.8	689.5
70°	462.3	495.3	545.2	593.0	616.8
72.5°	387.3	422.6	471.4	520.3	544.1
75°	311.2	347.6	397.6	445.3	474.8
77.5°	239.7	274.9	324.9	373.7	398.7
80°	171.5	206.7	255.6	304.4	330.6
82.5°	109.0	142.0	189.7	230.6	254.4
85°	56.8	84.1	120.4	134.0	149.9
87.5°	17.0	32.9	46.6	52.3	64.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589885

CATALOG NUMBER: 24CZSP-SB-57HE-L935

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	15.1	16.8	15.5	17.1	17.4	15.9	17.5	16.2	17.8	18.1
	3H	16.9	18.4	17.3	18.7	19.1	18.0	19.5	18.3	19.8	20.1
	4H	17.5	18.9	17.9	19.3	19.6	18.8	20.3	19.2	20.6	21.0
	6H	17.9	19.2	18.3	19.6	20.0	19.6	20.9	20.0	21.3	21.7
	8H	18.0	19.3	18.4	19.7	20.1	19.9	21.2	20.3	21.6	22.0
	12H	18.1	19.3	18.5	19.7	20.1	20.1	21.3	20.6	21.7	22.1
4H	2H	15.9	17.3	16.3	17.7	18.0	16.5	17.9	16.9	18.2	18.6
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.6	19.7	19.1	20.1	20.6	19.8	20.9	20.3	21.3	21.8
	6H	19.2	20.1	19.6	20.6	21.0	20.8	21.7	21.2	22.1	22.6
	8H	19.3	20.2	19.8	20.6	21.1	21.1	22.0	21.6	22.5	22.9
	12H	19.4	20.2	19.9	20.7	21.1	21.4	22.2	21.9	22.7	23.2
8H	4H	19.1	20.0	19.5	20.4	20.9	20.1	21.0	20.6	21.5	21.9
	6H	19.8	20.5	20.3	21.0	21.5	21.2	22.0	21.7	22.4	22.9
	8H	20.0	20.6	20.5	21.2	21.6	21.7	22.4	22.2	22.9	23.4
	12H	20.1	20.7	20.6	21.2	21.8	22.1	22.7	22.6	23.2	23.7
12H	4H	19.2	20.0	19.6	20.4	20.9	20.2	21.0	20.6	21.4	21.9
	6H	19.9	20.6	20.4	21.0	21.6	21.3	21.9	21.8	22.4	22.9
	8H	20.2	20.8	20.7	21.3	21.8	21.8	22.4	22.3	22.9	23.5

(END OF REPORT)