

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: P1589869

Luminaire Tested: 24CZSP-SB-57-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589869
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-57-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

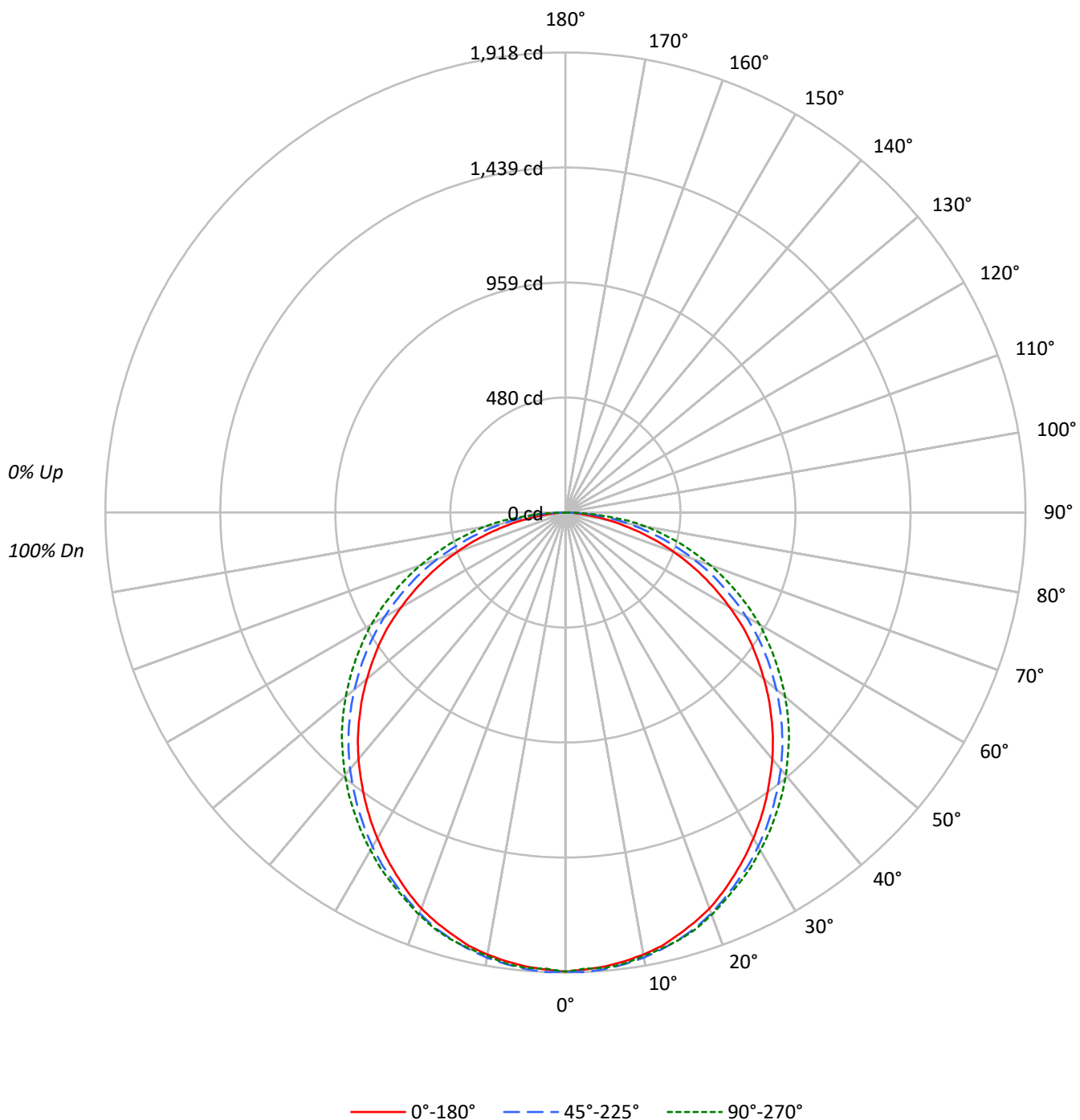
Lumens per Lamp: N/A
Luminaire Lumens: 5586.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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°	2932	2932	2932
5°	2921	2938	2930
10°	2911	2931	2920
15°	2889	2919	2923
20°	2864	2898	2908
25°	2817	2867	2887
30°	2773	2844	2875
35°	2728	2816	2865
40°	2683	2792	2858
45°	2633	2766	2855
50°	2575	2735	2848
55°	2516	2706	2848
60°	2423	2666	2865
65°	2309	2614	2866
70°	2155	2541	2875
75°	1917	2449	2925
80°	1574	2346	3034
85°	1039	2202	2743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.2
10°-20°	518.3	9.3
20°-30°	781.2	14.0
30°-40°	940.7	16.8
40°-50°	982.8	17.6
50°-60°	902.9	16.2
60°-70°	711.0	12.7
70°-80°	435.9	7.8
80°-90°	132.2	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°	1480.5	26.5
0°-40°	2421.2	43.3
0°-60°	4306.9	77.1
0°-90°	5586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1900	1904	1911	1908	1906	180
15°	1822	1829	1841	1848	1843	514
25°	1667	1678	1697	1714	1708	768
35°	1459	1478	1506	1533	1532	913
45°	1215	1241	1277	1312	1318	937
55°	942	970	1013	1057	1066	841
65°	637	670	721	770	791	630
75°	324	362	414	464	494	344
85°	59	88	125	140	156	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1914.1	1914.1	1914.1	1914.1	1914.1
2.5°	1907.0	1911.7	1917.6	1908.2	1903.5
5°	1899.9	1903.5	1910.6	1908.2	1905.8
7.5°	1886.9	1889.3	1898.7	1898.7	1896.4
10°	1871.5	1876.3	1884.5	1883.4	1877.4
12.5°	1851.4	1855.0	1864.4	1864.4	1860.9
15°	1821.9	1829.0	1840.8	1847.9	1843.2
17.5°	1791.1	1798.2	1813.6	1820.7	1818.3
20°	1756.9	1762.8	1778.1	1788.8	1784.0
22.5°	1714.3	1721.4	1739.1	1750.9	1746.2
25°	1667.0	1677.6	1696.6	1714.3	1708.4
27.5°	1619.7	1631.5	1655.2	1672.9	1670.6
30°	1567.7	1583.1	1607.9	1630.4	1625.6
32.5°	1514.5	1532.2	1558.2	1581.9	1580.7
35°	1458.9	1477.8	1506.2	1533.4	1532.2
37.5°	1399.8	1422.3	1451.8	1481.4	1482.6
40°	1341.9	1363.2	1396.3	1428.2	1429.4
42.5°	1280.4	1302.9	1338.3	1371.4	1372.6
45°	1215.4	1241.4	1276.9	1312.3	1318.2
47.5°	1149.2	1176.4	1213.0	1250.8	1257.9
50°	1080.6	1109.0	1148.0	1188.2	1195.3
52.5°	1010.8	1040.4	1080.6	1120.8	1131.4
55°	942.3	969.5	1013.2	1057.0	1066.4
57.5°	870.2	895.0	942.3	988.4	1000.2
60°	790.9	821.7	870.2	916.3	935.2
62.5°	714.1	747.2	796.9	843.0	864.2
65°	637.2	670.3	721.2	769.7	790.9
67.5°	559.2	593.5	647.9	694.0	717.6
70°	481.2	515.5	567.5	617.1	642.0
72.5°	403.2	439.8	490.6	541.5	566.3
75°	323.9	361.8	413.8	463.5	494.2
77.5°	249.5	286.1	338.1	389.0	415.0
80°	178.5	215.2	266.0	316.8	344.0
82.5°	113.5	147.8	197.4	240.0	264.8
85°	59.1	87.5	125.3	139.5	156.1
87.5°	17.7	34.3	48.5	54.4	67.4
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	17.5	16.0	17.7	16.4	18.0	18.3
	3H	17.0	18.5	17.4	18.8	19.2	18.1	19.6	18.5	19.9	20.3
	4H	17.6	19.1	18.0	19.4	19.8	19.0	20.4	19.4	20.7	21.1
	6H	18.1	19.4	18.5	19.7	20.1	19.7	21.1	20.2	21.4	21.8
	8H	18.2	19.4	18.6	19.8	20.2	20.1	21.3	20.5	21.7	22.1
	12H	18.2	19.4	18.6	19.8	20.2	20.3	21.5	20.7	21.9	22.3
4H	2H	16.0	17.4	16.4	17.8	18.2	16.6	18.0	17.0	18.4	18.7
	3H	18.0	19.2	18.4	19.6	20.0	18.9	20.1	19.3	20.5	20.9
	4H	18.8	19.9	19.2	20.3	20.7	20.0	21.0	20.4	21.5	21.9
	6H	19.3	20.3	19.8	20.7	21.2	20.9	21.8	21.3	22.3	22.7
	8H	19.5	20.3	19.9	20.8	21.2	21.3	22.2	21.7	22.6	23.1
	12H	19.5	20.3	20.0	20.8	21.3	21.6	22.4	22.0	22.8	23.3
8H	4H	19.2	20.1	19.7	20.6	21.0	20.3	21.2	20.7	21.6	22.1
	6H	19.9	20.6	20.4	21.1	21.6	21.3	22.1	21.8	22.6	23.1
	8H	20.1	20.8	20.6	21.3	21.8	21.8	22.5	22.3	23.0	23.5
	12H	20.3	20.9	20.8	21.3	21.9	22.2	22.8	22.7	23.3	23.9
12H	4H	19.3	20.1	19.8	20.6	21.0	20.3	21.1	20.8	21.6	22.0
	6H	20.0	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	22.0	22.5	22.5	23.0	23.6

(END OF REPORT)