

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: P1589934

Luminaire Tested: 24CZSP-SB-65-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589934
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-65-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

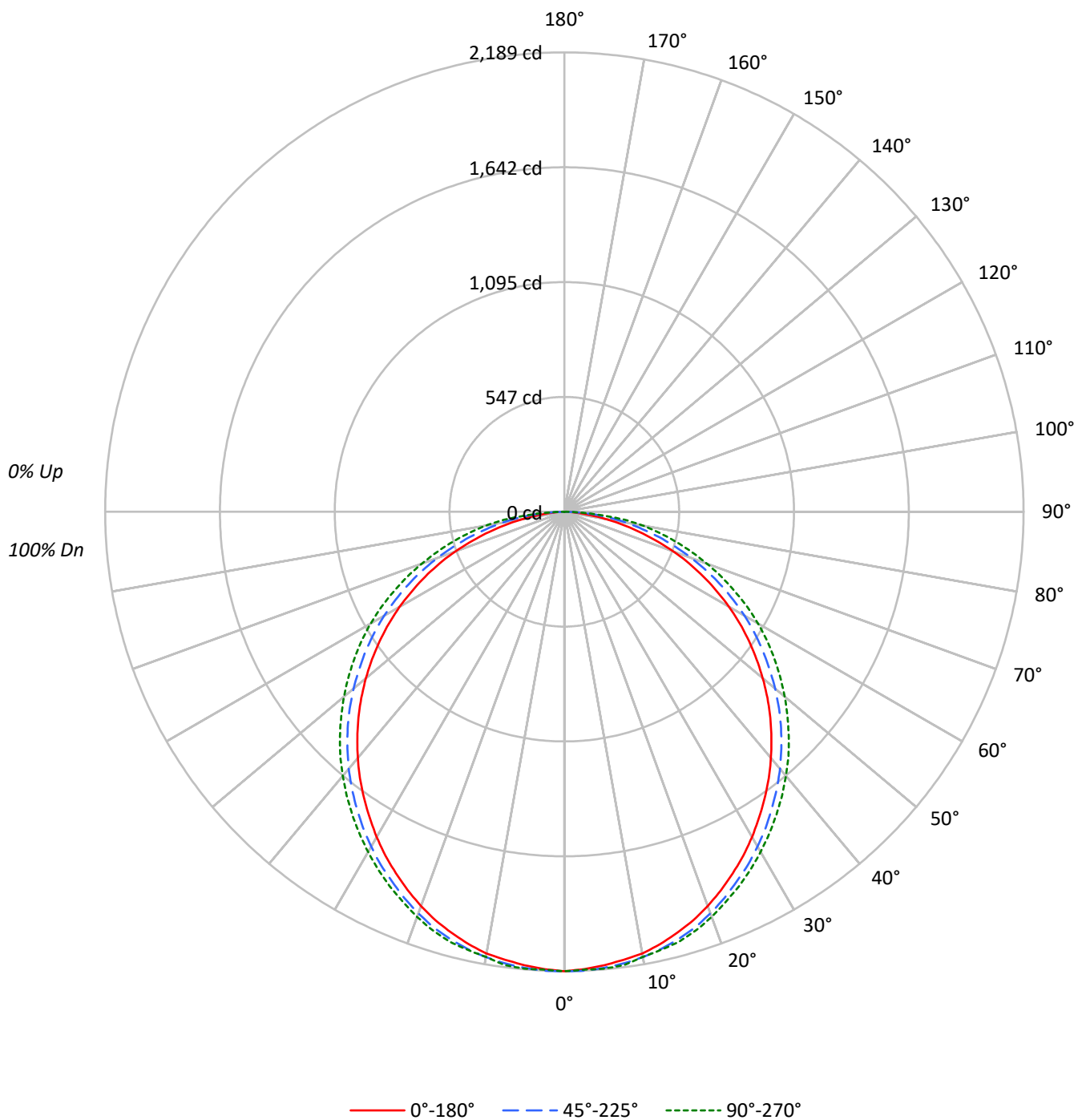
Lumens per Lamp: N/A
Luminaire Lumens: 6369.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3353	3353	3353
5°	3335	3354	3360
10°	3324	3352	3350
15°	3294	3341	3361
20°	3258	3319	3348
25°	3211	3286	3327
30°	3165	3257	3310
35°	3113	3225	3295
40°	3063	3197	3285
45°	3006	3164	3276
50°	2942	3124	3268
55°	2868	3084	3263
60°	2778	3039	3265
65°	2651	2974	3248
70°	2479	2884	3240
75°	2197	2773	3251
80°	1789	2635	3347
85°	1156	2432	2889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3392 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.3
10°-20°	593.3	9.3
20°-30°	894.6	14.0
30°-40°	1076.4	16.9
40°-50°	1122.8	17.6
50°-60°	1029.2	16.2
60°-70°	808.1	12.7
70°-80°	491.9	7.7
80°-90°	145.5	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°	1695.1	26.6
0°-40°	2771.5	43.5
0°-60°	4923.5	77.3
0°-90°	6369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2189	2189	2189	2189	2189	
5°	2169	2183	2181	2178	2185	206
15°	2077	2098	2107	2110	2120	586
25°	1900	1926	1944	1956	1969	876
35°	1665	1691	1725	1750	1762	1042
45°	1388	1417	1460	1495	1513	1070
55°	1074	1102	1155	1202	1222	960
65°	732	759	821	876	896	724
75°	371	406	469	525	549	394
85°	66	93	138	155	164	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2189.4	2189.4	2189.4	2189.4	2189.4
2.5°	2181.2	2192.2	2189.4	2179.9	2184.0
5°	2168.9	2182.6	2181.2	2178.5	2185.3
7.5°	2153.8	2168.9	2170.3	2170.3	2178.5
10°	2137.4	2152.4	2155.2	2151.1	2153.8
12.5°	2110.0	2127.8	2133.3	2133.3	2137.4
15°	2077.1	2097.6	2107.2	2110.0	2119.6
17.5°	2041.5	2063.4	2075.7	2082.6	2090.8
20°	1999.0	2022.3	2036.0	2044.2	2053.8
22.5°	1951.0	1977.1	1992.1	2000.4	2011.3
25°	1900.3	1926.4	1944.2	1956.5	1968.9
27.5°	1846.9	1871.6	1896.2	1911.3	1922.3
30°	1789.4	1815.4	1841.4	1860.6	1871.6
32.5°	1727.7	1755.1	1785.3	1805.8	1818.1
35°	1664.7	1690.7	1725.0	1749.6	1762.0
37.5°	1600.3	1627.7	1663.3	1689.4	1704.4
40°	1531.8	1560.6	1598.9	1627.7	1642.8
42.5°	1460.5	1487.9	1530.4	1563.3	1581.1
45°	1387.9	1416.7	1460.5	1494.8	1512.6
47.5°	1312.6	1340.0	1387.9	1427.7	1442.7
50°	1234.5	1260.5	1311.2	1353.7	1371.5
52.5°	1155.0	1182.4	1233.1	1278.3	1297.5
55°	1074.2	1101.6	1155.0	1201.6	1222.1
57.5°	992.0	1019.4	1074.2	1122.1	1146.8
60°	907.0	934.4	992.0	1041.3	1065.9
62.5°	819.3	848.1	907.0	957.7	983.7
65°	731.6	759.0	820.7	875.5	896.1
67.5°	644.0	671.4	731.6	786.4	811.1
70°	553.5	585.0	644.0	701.5	723.4
72.5°	459.0	494.6	553.5	613.8	635.7
75°	371.3	405.6	468.6	524.8	549.4
77.5°	285.0	322.0	380.9	438.4	463.1
80°	202.8	238.4	298.7	353.5	379.5
82.5°	128.8	160.3	220.6	269.9	289.1
85°	65.8	93.2	138.4	154.8	164.4
87.5°	19.2	32.9	49.3	61.7	68.5
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	15.7	17.4	16.1	17.7	18.0	16.4	18.1	16.8	18.4	18.7
	3H	17.5	19.0	17.8	19.3	19.7	18.5	20.0	18.9	20.3	20.7
	4H	18.1	19.5	18.5	19.9	20.2	19.4	20.8	19.8	21.1	21.5
	6H	18.5	19.8	18.9	20.2	20.6	20.1	21.4	20.5	21.8	22.2
	8H	18.6	19.9	19.0	20.3	20.6	20.4	21.7	20.8	22.1	22.5
	12H	18.7	19.9	19.1	20.2	20.7	20.6	21.8	21.0	22.2	22.6
4H	2H	16.5	17.9	16.9	18.2	18.6	17.0	18.5	17.4	18.8	19.2
	3H	18.5	19.7	18.9	20.1	20.5	19.4	20.6	19.8	20.9	21.3
	4H	19.2	20.3	19.6	20.7	21.1	20.4	21.5	20.8	21.9	22.3
	6H	19.7	20.7	20.2	21.1	21.6	21.3	22.2	21.7	22.7	23.1
	8H	19.9	20.8	20.3	21.2	21.7	21.6	22.5	22.1	23.0	23.4
	12H	20.0	20.8	20.4	21.2	21.7	21.9	22.7	22.4	23.2	23.6
8H	4H	19.7	20.5	20.1	21.0	21.4	20.7	21.6	21.1	22.0	22.5
	6H	20.3	21.1	20.8	21.5	22.0	21.7	22.5	22.2	23.0	23.4
	8H	20.5	21.2	21.0	21.7	22.2	22.2	22.9	22.7	23.4	23.9
	12H	20.7	21.3	21.2	21.7	22.3	22.6	23.1	23.1	23.6	24.2
12H	4H	19.7	20.5	20.2	21.0	21.5	20.7	21.5	21.2	22.0	22.4
	6H	20.5	21.1	21.0	21.6	22.1	21.8	22.5	22.3	22.9	23.5
	8H	20.7	21.3	21.2	21.8	22.4	22.3	22.9	22.8	23.4	24.0

(END OF REPORT)