

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: P1589941

Luminaire Tested: 24CZSP-SB-65-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589941
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-65-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 6000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

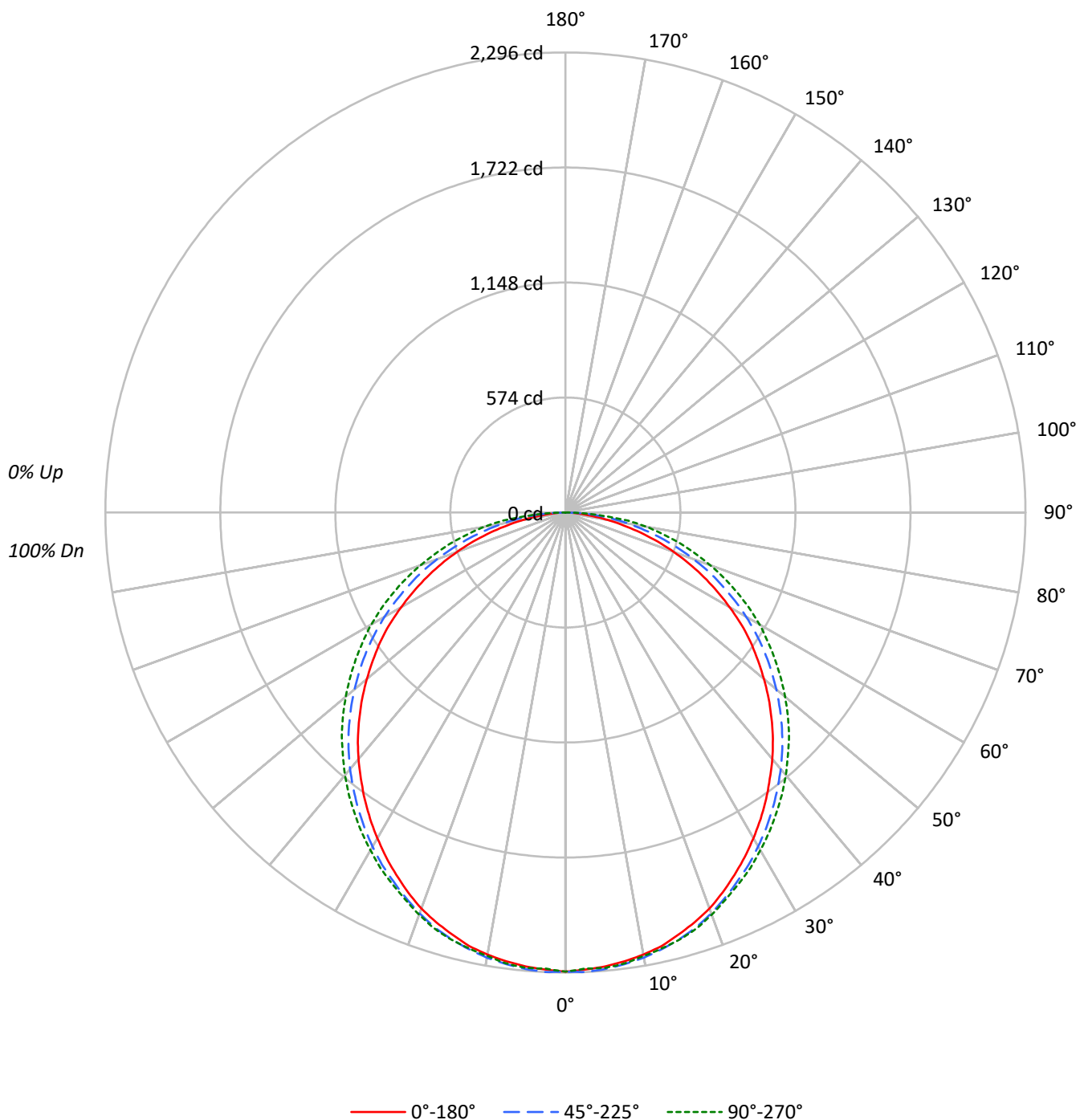
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6687.0 lumens
Efficiency: N/A
Efficacy: 139.6 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): 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			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°	3510	3510	3510
5°	3497	3516	3508
10°	3484	3509	3495
15°	3458	3494	3499
20°	3428	3469	3481
25°	3372	3432	3456
30°	3319	3404	3442
35°	3266	3371	3430
40°	3212	3342	3421
45°	3151	3311	3418
50°	3082	3275	3410
55°	3012	3239	3409
60°	2900	3191	3429
65°	2764	3129	3431
70°	2579	3042	3441
75°	2295	2932	3501
80°	1885	2808	3633
85°	1244	2636	3283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3720 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	3.2
10°-20°	620.4	9.3
20°-30°	935.1	14.0
30°-40°	1126.1	16.8
40°-50°	1176.5	17.6
50°-60°	1080.9	16.2
60°-70°	851.2	12.7
70°-80°	521.8	7.8
80°-90°	158.2	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°	1772.3	26.5
0°-40°	2898.4	43.3
0°-60°	5155.8	77.1
0°-90°	6687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2274	2279	2287	2284	2282	216
15°	2181	2190	2204	2212	2206	615
25°	1996	2008	2031	2052	2045	920
35°	1746	1769	1803	1836	1834	1092
45°	1455	1486	1528	1571	1578	1122
55°	1128	1160	1213	1265	1277	1006
65°	763	802	863	921	947	754
75°	388	433	495	555	592	412
85°	71	105	150	167	187	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.4	2291.4	2291.4	2291.4	2291.4
2.5°	2282.9	2288.5	2295.6	2284.3	2278.6
5°	2274.4	2278.6	2287.1	2284.3	2281.5
7.5°	2258.8	2261.6	2273.0	2273.0	2270.1
10°	2240.4	2246.1	2256.0	2254.6	2247.5
12.5°	2216.4	2220.6	2231.9	2231.9	2227.7
15°	2181.0	2189.5	2203.6	2212.1	2206.4
17.5°	2144.2	2152.7	2171.1	2179.6	2176.7
20°	2103.1	2110.2	2128.6	2141.3	2135.7
22.5°	2052.2	2060.7	2081.9	2096.1	2090.4
25°	1995.6	2008.3	2031.0	2052.2	2045.1
27.5°	1939.0	1953.1	1981.4	2002.6	1999.8
30°	1876.7	1895.1	1924.8	1951.7	1946.0
32.5°	1813.0	1834.2	1865.4	1893.7	1892.3
35°	1746.5	1769.1	1803.1	1835.6	1834.2
37.5°	1675.7	1702.6	1738.0	1773.4	1774.8
40°	1606.4	1631.8	1671.5	1709.7	1711.1
42.5°	1532.8	1559.7	1602.1	1641.7	1643.2
45°	1454.9	1486.1	1528.5	1571.0	1578.1
47.5°	1375.7	1408.2	1452.1	1497.4	1505.9
50°	1293.6	1327.5	1374.3	1422.4	1430.9
52.5°	1210.1	1245.5	1293.6	1341.7	1354.4
55°	1128.0	1160.5	1212.9	1265.3	1276.6
57.5°	1041.7	1071.4	1128.0	1183.2	1197.3
60°	946.8	983.6	1041.7	1096.9	1119.5
62.5°	854.8	894.5	953.9	1009.1	1034.6
65°	762.8	802.5	863.3	921.4	946.8
67.5°	669.4	710.5	775.6	830.8	859.1
70°	576.0	617.1	679.3	738.8	768.5
72.5°	482.6	526.5	587.3	648.2	677.9
75°	387.8	433.1	495.4	554.8	591.6
77.5°	298.6	342.5	404.8	465.6	496.8
80°	213.7	257.6	318.4	379.3	411.9
82.5°	135.9	176.9	236.4	287.3	317.0
85°	70.8	104.7	150.0	167.0	186.8
87.5°	21.2	41.0	58.0	65.1	80.7
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	15.9	17.5	16.2	17.9	18.2	16.6	18.3	17.0	18.6	18.9
	3H	17.6	19.1	18.0	19.5	19.8	18.7	20.2	19.1	20.6	20.9
	4H	18.3	19.7	18.7	20.0	20.4	19.6	21.0	20.0	21.4	21.7
	6H	18.7	20.0	19.1	20.4	20.7	20.4	21.7	20.8	22.1	22.4
	8H	18.8	20.0	19.2	20.4	20.8	20.7	21.9	21.1	22.3	22.7
	12H	18.8	20.0	19.3	20.4	20.9	20.9	22.1	21.3	22.5	22.9
4H	2H	16.6	18.1	17.0	18.4	18.8	17.2	18.6	17.6	19.0	19.4
	3H	18.6	19.8	19.0	20.2	20.6	19.6	20.8	20.0	21.1	21.5
	4H	19.4	20.5	19.8	20.9	21.3	20.6	21.7	21.0	22.1	22.5
	6H	19.9	20.9	20.4	21.3	21.8	21.5	22.5	22.0	22.9	23.4
	8H	20.1	21.0	20.5	21.4	21.9	21.9	22.8	22.4	23.2	23.7
	12H	20.2	21.0	20.6	21.4	21.9	22.2	23.0	22.7	23.5	23.9
8H	4H	19.8	20.7	20.3	21.2	21.6	20.9	21.8	21.3	22.2	22.7
	6H	20.5	21.3	21.0	21.8	22.2	22.0	22.7	22.5	23.2	23.7
	8H	20.7	21.4	21.3	21.9	22.4	22.5	23.1	23.0	23.6	24.1
	12H	20.9	21.5	21.4	22.0	22.5	22.8	23.4	23.3	23.9	24.5
12H	4H	19.9	20.7	20.4	21.2	21.7	20.9	21.7	21.4	22.2	22.7
	6H	20.7	21.3	21.2	21.8	22.3	22.0	22.7	22.6	23.2	23.7
	8H	20.9	21.5	21.4	22.0	22.6	22.6	23.2	23.1	23.7	24.2

(END OF REPORT)