

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: P1589940

Luminaire Tested: 24CZSP-SB-65-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589940
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 6000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

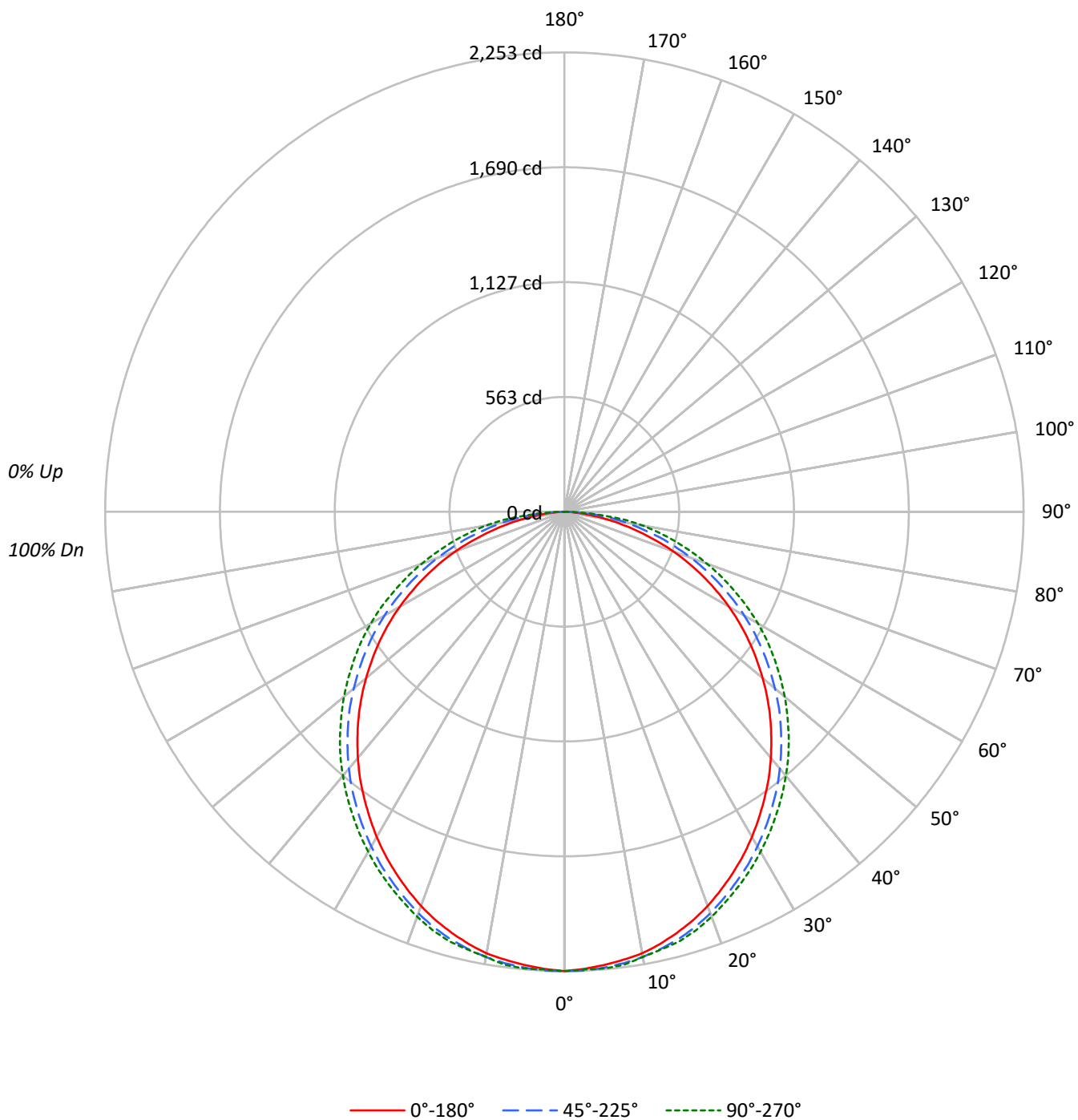
Lumens per Lamp: N/A
Luminaire Lumens: 6553.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1589940

CATALOG NUMBER: 24CZSP-SB-65-L850-S

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	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°	3450	3450	3450
5°	3431	3450	3457
10°	3420	3449	3446
15°	3389	3438	3458
20°	3352	3414	3444
25°	3304	3381	3423
30°	3256	3351	3406
35°	3203	3318	3390
40°	3151	3289	3379
45°	3093	3255	3371
50°	3026	3215	3362
55°	2951	3173	3358
60°	2859	3126	3359
65°	2728	3060	3341
70°	2550	2967	3333
75°	2261	2853	3345
80°	1840	2710	3444
85°	1190	2502	2973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3490 cd/sqm

TEST NUMBER: P1589940

CATALOG NUMBER: 24CZSP-SB-65-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	3.3
10°-20°	610.5	9.3
20°-30°	920.4	14.0
30°-40°	1107.5	16.9
40°-50°	1155.2	17.6
50°-60°	1058.9	16.2
60°-70°	831.5	12.7
70°-80°	506.1	7.7
80°-90°	149.7	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°	1744.1	26.6
0°-40°	2851.6	43.5
0°-60°	5065.7	77.3
0°-90°	6553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2253	2253	2253	2253	2253	
5°	2232	2246	2244	2241	2248	212
15°	2137	2158	2168	2171	2181	603
25°	1955	1982	2000	2013	2026	901
35°	1713	1740	1775	1800	1813	1072
45°	1428	1458	1503	1538	1556	1101
55°	1105	1133	1188	1236	1257	988
65°	753	781	844	901	922	745
75°	382	417	482	540	565	405
85°	68	96	142	159	169	88
90°	0	0	0	0	0	

TEST NUMBER: P1589940

CATALOG NUMBER: 24CZSP-SB-65-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2244.2	2255.5	2252.7	2242.8	2247.1
5°	2231.5	2245.6	2244.2	2241.4	2248.5
7.5°	2216.0	2231.5	2233.0	2233.0	2241.4
10°	2199.1	2214.6	2217.5	2213.2	2216.0
12.5°	2170.9	2189.3	2194.9	2194.9	2199.1
15°	2137.1	2158.2	2168.1	2170.9	2180.8
17.5°	2100.4	2123.0	2135.7	2142.7	2151.2
20°	2056.7	2080.7	2094.8	2103.3	2113.1
22.5°	2007.4	2034.2	2049.7	2058.2	2069.4
25°	1955.2	1982.0	2000.4	2013.0	2025.7
27.5°	1900.3	1925.6	1951.0	1966.5	1977.8
30°	1841.1	1867.8	1894.6	1914.4	1925.6
32.5°	1777.6	1805.8	1836.8	1858.0	1870.7
35°	1712.8	1739.6	1774.8	1800.2	1812.9
37.5°	1646.5	1674.7	1711.4	1738.2	1753.7
40°	1576.0	1605.6	1645.1	1674.7	1690.2
42.5°	1502.7	1530.9	1574.6	1608.5	1626.8
45°	1428.0	1457.6	1502.7	1538.0	1556.3
47.5°	1350.5	1378.7	1428.0	1468.9	1484.4
50°	1270.1	1296.9	1349.1	1392.8	1411.1
52.5°	1188.4	1216.6	1268.7	1315.2	1335.0
55°	1105.2	1133.4	1188.4	1236.3	1257.4
57.5°	1020.6	1048.8	1105.2	1154.5	1179.9
60°	933.2	961.4	1020.6	1071.4	1096.7
62.5°	843.0	872.6	933.2	985.4	1012.2
65°	752.8	781.0	844.4	900.8	921.9
67.5°	662.6	690.8	752.8	809.2	834.5
70°	569.5	601.9	662.6	721.8	744.3
72.5°	472.2	508.9	569.5	631.5	654.1
75°	382.0	417.3	482.1	539.9	565.3
77.5°	293.2	331.3	391.9	451.1	476.5
80°	208.6	245.3	307.3	363.7	390.5
82.5°	132.5	164.9	227.0	277.7	297.4
85°	67.7	95.9	142.4	159.3	169.2
87.5°	19.7	33.8	50.7	63.4	70.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589940

CATALOG NUMBER: 24CZSP-SB-65-L850-S

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	15.8	17.5	16.2	17.8	18.1	16.5	18.2	16.9	18.5	18.8
	3H	17.6	19.1	17.9	19.4	19.8	18.6	20.1	19.0	20.4	20.8
	4H	18.2	19.6	18.6	20.0	20.3	19.5	20.9	19.9	21.2	21.6
	6H	18.6	19.9	19.0	20.3	20.7	20.2	21.5	20.6	21.9	22.3
	8H	18.7	20.0	19.1	20.4	20.7	20.5	21.8	20.9	22.2	22.6
	12H	18.8	20.0	19.2	20.3	20.8	20.7	21.9	21.1	22.3	22.7
4H	2H	16.6	18.0	17.0	18.3	18.7	17.1	18.6	17.5	18.9	19.3
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	19.9	21.0	21.4
	4H	19.3	20.4	19.7	20.8	21.2	20.5	21.6	20.9	22.0	22.4
	6H	19.8	20.8	20.3	21.2	21.7	21.4	22.3	21.8	22.8	23.2
	8H	20.0	20.9	20.4	21.3	21.8	21.7	22.6	22.2	23.1	23.5
	12H	20.1	20.9	20.5	21.3	21.8	22.0	22.8	22.5	23.3	23.7
8H	4H	19.8	20.6	20.2	21.1	21.5	20.8	21.7	21.2	22.1	22.6
	6H	20.4	21.2	20.9	21.6	22.1	21.8	22.6	22.3	23.1	23.5
	8H	20.6	21.3	21.1	21.8	22.3	22.3	23.0	22.8	23.5	24.0
	12H	20.8	21.3	21.3	21.8	22.4	22.7	23.2	23.2	23.7	24.3
12H	4H	19.8	20.6	20.3	21.1	21.6	20.8	21.6	21.3	22.1	22.5
	6H	20.6	21.2	21.1	21.7	22.2	21.9	22.6	22.4	23.0	23.6
	8H	20.8	21.4	21.3	21.9	22.5	22.4	23.0	22.9	23.5	24.1

(END OF REPORT)