

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: P1590049

Luminaire Tested: 24CZSP-SB-80-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590049
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-80-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

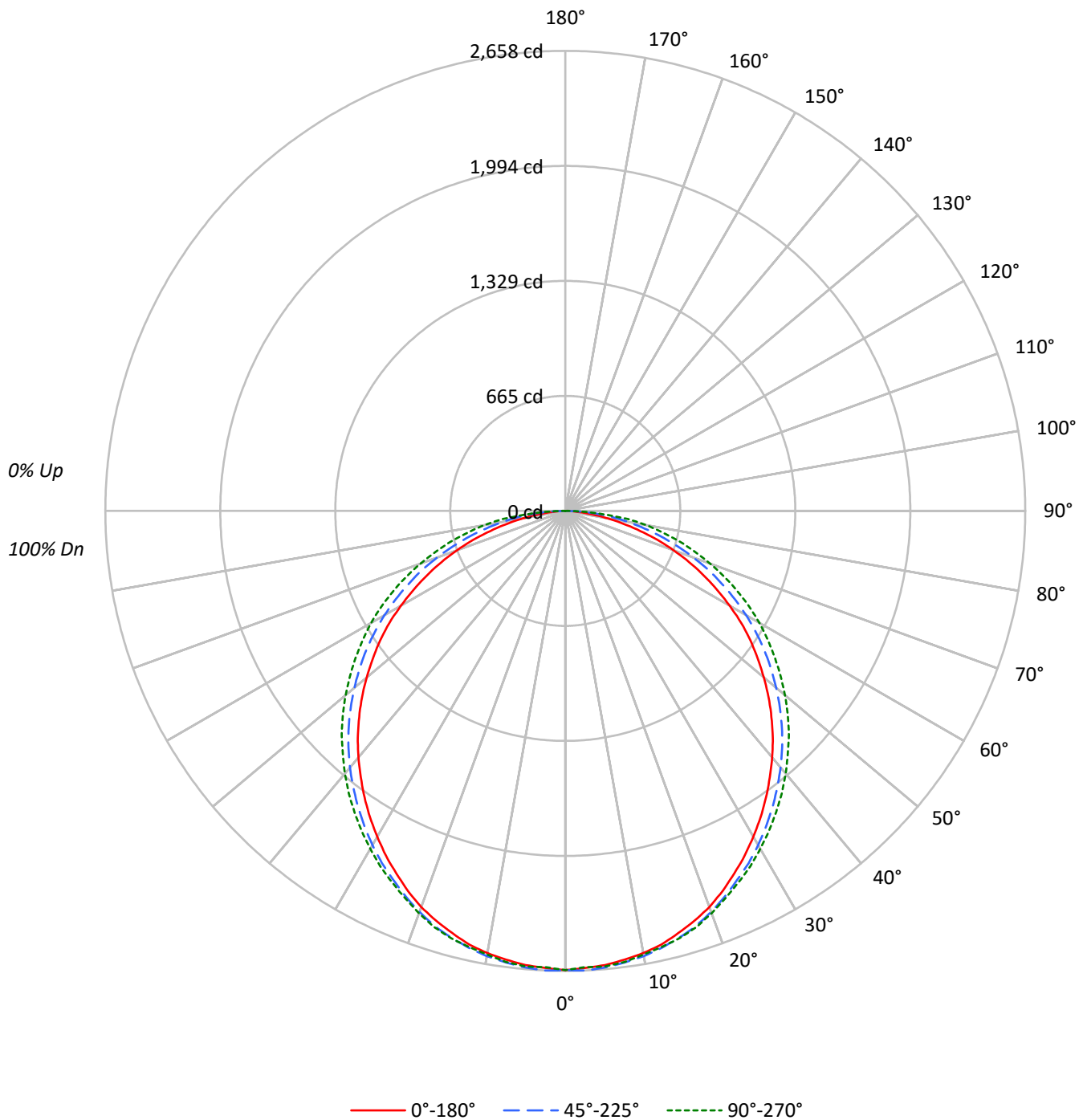
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7743.0 lumens
Efficiency: N/A
Efficacy: 123.5 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): 62.7
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: P1590049
CATALOG NUMBER: 24CZSP-SB-80-L945

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°	4064	4064	4064
5°	4049	4072	4062
10°	4035	4063	4047
15°	4004	4046	4051
20°	3969	4017	4031
25°	3905	3974	4002
30°	3843	3942	3985
35°	3781	3904	3971
40°	3719	3870	3961
45°	3649	3834	3958
50°	3569	3792	3948
55°	3488	3750	3947
60°	3359	3695	3971
65°	3201	3623	3974
70°	2987	3523	3985
75°	2657	3394	4054
80°	2183	3252	4206
85°	1439	3053	3801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4308 cd/sqm

TEST NUMBER: P1590049

CATALOG NUMBER: 24CZSP-SB-80-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	3.2
10°-20°	718.4	9.3
20°-30°	1082.8	14.0
30°-40°	1303.9	16.8
40°-50°	1362.3	17.6
50°-60°	1251.6	16.2
60°-70°	985.6	12.7
70°-80°	604.3	7.8
80°-90°	183.2	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°	2052.2	26.5
0°-40°	3356.1	43.3
0°-60°	5970.0	77.1
0°-90°	7743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2653	2653	2653	2653	2653	
5°	2634	2638	2648	2645	2642	250
15°	2525	2535	2552	2561	2555	713
25°	2311	2326	2352	2376	2368	1065
35°	2022	2048	2088	2126	2124	1265
45°	1685	1721	1770	1819	1827	1299
55°	1306	1344	1404	1465	1478	1165
65°	883	929	1000	1067	1096	873
75°	449	502	574	642	685	477
85°	82	121	174	193	216	105
90°	0	0	0	0	0	

TEST NUMBER: P1590049

CATALOG NUMBER: 24CZSP-SB-80-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2643.4	2649.9	2658.1	2645.0	2638.5
5°	2633.6	2638.5	2648.3	2645.0	2641.7
7.5°	2615.5	2618.8	2631.9	2631.9	2628.6
10°	2594.2	2600.8	2612.2	2610.6	2602.4
12.5°	2566.4	2571.3	2584.4	2584.4	2579.5
15°	2525.4	2535.2	2551.6	2561.4	2554.9
17.5°	2482.8	2492.6	2513.9	2523.8	2520.5
20°	2435.3	2443.4	2464.8	2479.5	2472.9
22.5°	2376.3	2386.1	2410.7	2427.1	2420.5
25°	2310.7	2325.5	2351.7	2376.3	2368.1
27.5°	2245.2	2261.5	2294.3	2318.9	2315.6
30°	2173.0	2194.4	2228.8	2259.9	2253.3
32.5°	2099.3	2123.9	2159.9	2192.7	2191.1
35°	2022.3	2048.5	2087.8	2125.5	2123.9
37.5°	1940.3	1971.5	2012.4	2053.4	2055.1
40°	1860.0	1889.5	1935.4	1979.7	1981.3
42.5°	1774.8	1806.0	1855.1	1901.0	1902.6
45°	1684.7	1720.7	1769.9	1819.1	1827.3
47.5°	1592.9	1630.6	1681.4	1733.8	1743.7
50°	1497.9	1537.2	1591.3	1647.0	1656.8
52.5°	1401.2	1442.1	1497.9	1553.6	1568.3
55°	1306.1	1343.8	1404.5	1465.1	1478.2
57.5°	1206.2	1240.6	1306.1	1370.0	1386.4
60°	1096.4	1139.0	1206.2	1270.1	1296.3
62.5°	989.8	1035.7	1104.6	1168.5	1198.0
65°	883.3	929.2	999.7	1066.9	1096.4
67.5°	775.2	822.7	898.1	962.0	994.8
70°	667.0	714.5	786.6	855.5	889.9
72.5°	558.8	609.6	680.1	750.6	785.0
75°	449.0	501.5	573.6	642.4	685.0
77.5°	345.8	396.6	468.7	539.2	575.2
80°	247.5	298.3	368.7	439.2	476.9
82.5°	157.3	204.8	273.7	332.7	367.1
85°	81.9	121.3	173.7	193.4	216.3
87.5°	24.6	47.5	67.2	75.4	93.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590049

CATALOG NUMBER: 24CZSP-SB-80-L945

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	16.4	18.0	16.7	18.4	18.7	17.1	18.8	17.5	19.1	19.4
	3H	18.1	19.7	18.5	20.0	20.3	19.2	20.7	19.6	21.1	21.4
	4H	18.8	20.2	19.2	20.5	20.9	20.1	21.5	20.5	21.9	22.3
	6H	19.2	20.5	19.6	20.9	21.3	20.9	22.2	21.3	22.6	23.0
	8H	19.3	20.6	19.7	20.9	21.3	21.2	22.5	21.6	22.8	23.2
	12H	19.3	20.6	19.8	20.9	21.4	21.4	22.6	21.8	23.0	23.4
4H	2H	17.2	18.6	17.6	18.9	19.3	17.7	19.2	18.1	19.5	19.9
	3H	19.1	20.3	19.6	20.7	21.1	20.1	21.3	20.5	21.7	22.1
	4H	19.9	21.0	20.3	21.4	21.8	21.1	22.2	21.5	22.6	23.0
	6H	20.4	21.4	20.9	21.8	22.3	22.0	23.0	22.5	23.4	23.9
	8H	20.6	21.5	21.0	21.9	22.4	22.4	23.3	22.9	23.7	24.2
	12H	20.7	21.5	21.2	21.9	22.4	22.7	23.5	23.2	24.0	24.4
8H	4H	20.4	21.2	20.8	21.7	22.2	21.4	22.3	21.9	22.7	23.2
	6H	21.0	21.8	21.5	22.3	22.7	22.5	23.2	23.0	23.7	24.2
	8H	21.3	21.9	21.8	22.4	22.9	23.0	23.6	23.5	24.1	24.6
	12H	21.4	22.0	21.9	22.5	23.0	23.3	23.9	23.8	24.4	25.0
12H	4H	20.4	21.2	20.9	21.7	22.2	21.4	22.2	21.9	22.7	23.2
	6H	21.2	21.8	21.7	22.3	22.8	22.5	23.2	23.1	23.7	24.2
	8H	21.5	22.0	22.0	22.5	23.1	23.1	23.7	23.6	24.2	24.7

(END OF REPORT)