

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: P1589998

Luminaire Tested: 24CZSP-SB-75-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589998
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-75-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

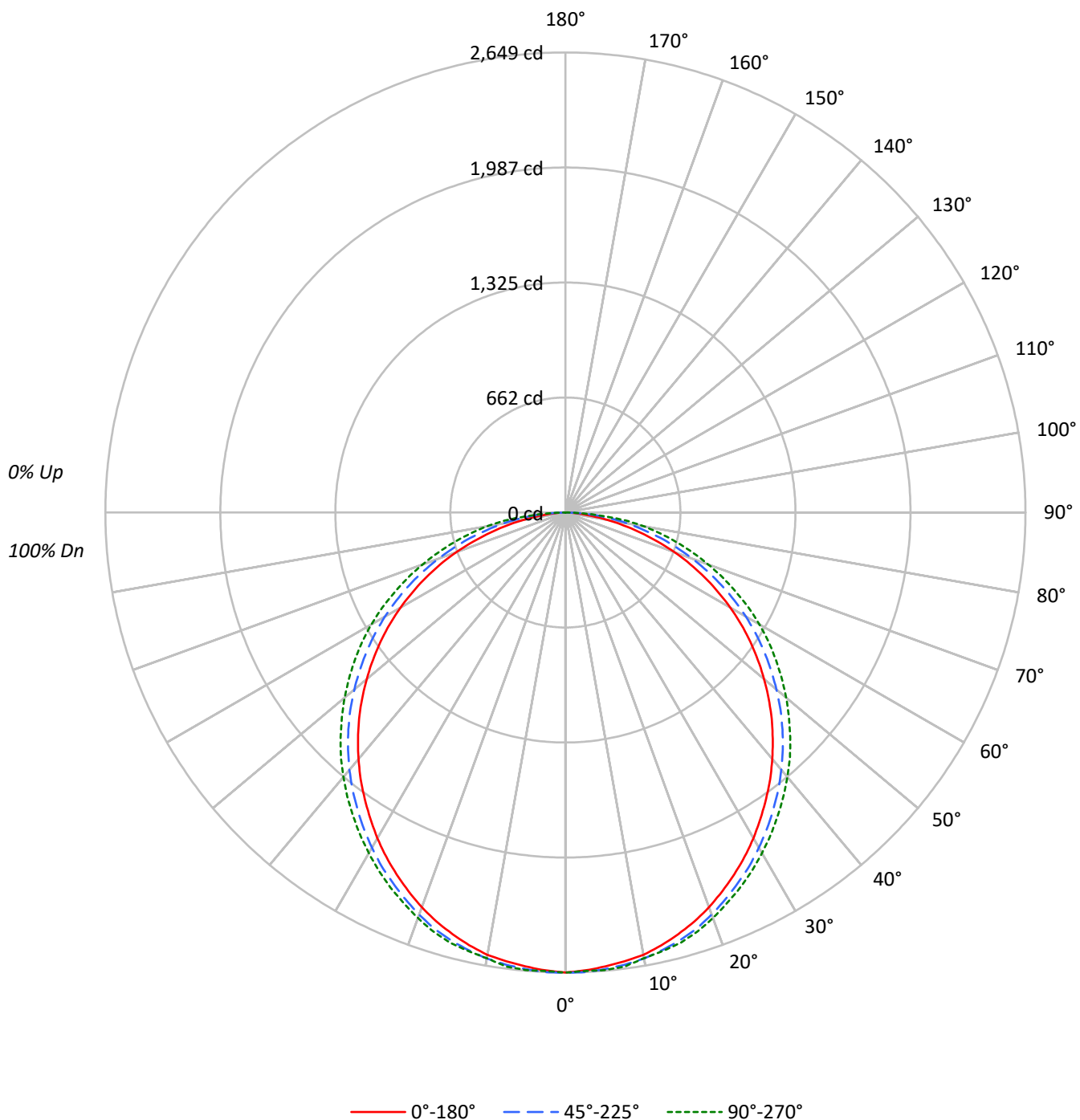
Lumens per Lamp: N/A
Luminaire Lumens: 7706.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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	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°	4057	4057	4057
5°	4035	4058	4065
10°	4022	4055	4053
15°	3985	4043	4066
20°	3942	4015	4050
25°	3886	3975	4026
30°	3829	3940	4005
35°	3766	3902	3986
40°	3705	3868	3974
45°	3637	3828	3964
50°	3559	3780	3954
55°	3471	3732	3949
60°	3362	3677	3951
65°	3208	3599	3929
70°	2999	3489	3920
75°	2658	3355	3934
80°	2164	3188	4050
85°	1399	2942	3495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4105 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	3.3
10°-20°	717.9	9.3
20°-30°	1082.4	14.0
30°-40°	1302.4	16.9
40°-50°	1358.5	17.6
50°-60°	1245.2	16.2
60°-70°	977.8	12.7
70°-80°	595.1	7.7
80°-90°	176.0	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°	2051.0	26.6
0°-40°	3353.3	43.5
0°-60°	5957.0	77.3
0°-90°	7706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2624	2641	2639	2636	2644	249
15°	2513	2538	2550	2553	2564	709
25°	2299	2331	2352	2367	2382	1060
35°	2014	2046	2087	2117	2132	1260
45°	1679	1714	1767	1809	1830	1295
55°	1300	1333	1398	1454	1479	1161
65°	885	918	993	1059	1084	876
75°	449	491	567	635	665	476
85°	80	113	167	187	199	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2649.1	2649.1	2649.1	2649.1	2649.1
2.5°	2639.1	2652.4	2649.1	2637.5	2642.4
5°	2624.2	2640.8	2639.1	2635.8	2644.1
7.5°	2606.0	2624.2	2625.8	2625.8	2635.8
10°	2586.1	2604.3	2607.6	2602.6	2606.0
12.5°	2552.9	2574.5	2581.1	2581.1	2586.1
15°	2513.1	2538.0	2549.6	2552.9	2564.5
17.5°	2470.0	2496.5	2511.5	2519.8	2529.7
20°	2418.6	2446.8	2463.4	2473.3	2484.9
22.5°	2360.6	2392.1	2410.3	2420.3	2433.6
25°	2299.3	2330.8	2352.3	2367.2	2382.2
27.5°	2234.6	2264.5	2294.3	2312.5	2325.8
30°	2165.0	2196.5	2228.0	2251.2	2264.5
32.5°	2090.4	2123.6	2160.0	2184.9	2199.8
35°	2014.1	2045.6	2087.1	2116.9	2131.8
37.5°	1936.2	1969.4	2012.5	2044.0	2062.2
40°	1853.3	1888.2	1934.6	1969.4	1987.6
42.5°	1767.1	1800.3	1851.7	1891.5	1913.0
45°	1679.3	1714.1	1767.1	1808.6	1830.1
47.5°	1588.1	1621.3	1679.3	1727.4	1745.6
50°	1493.6	1525.1	1586.4	1637.8	1659.4
52.5°	1397.5	1430.6	1492.0	1546.7	1569.9
55°	1299.7	1332.8	1397.5	1453.8	1478.7
57.5°	1200.2	1233.4	1299.7	1357.7	1387.5
60°	1097.4	1130.6	1200.2	1259.9	1289.7
62.5°	991.3	1026.1	1097.4	1158.8	1190.3
65°	885.2	918.4	993.0	1059.3	1084.2
67.5°	779.1	812.3	885.2	951.5	981.4
70°	669.7	707.9	779.1	848.8	875.3
72.5°	555.3	598.4	669.7	742.7	769.2
75°	449.2	490.7	566.9	634.9	664.8
77.5°	344.8	389.6	460.8	530.5	560.3
80°	245.3	288.4	361.4	427.7	459.2
82.5°	155.8	194.0	266.9	326.6	349.8
85°	79.6	112.7	167.4	187.3	198.9
87.5°	23.2	39.8	59.7	74.6	82.9
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	16.4	18.0	16.7	18.3	18.7	17.1	18.8	17.5	19.1	19.4
	3H	18.1	19.6	18.5	20.0	20.3	19.2	20.7	19.6	21.0	21.4
	4H	18.8	20.2	19.2	20.5	20.9	20.0	21.5	20.4	21.8	22.2
	6H	19.2	20.5	19.6	20.8	21.2	20.8	22.1	21.2	22.5	22.9
	8H	19.3	20.5	19.7	20.9	21.3	21.1	22.3	21.5	22.7	23.1
	12H	19.3	20.5	19.7	20.9	21.3	21.3	22.5	21.7	22.9	23.3
4H	2H	17.1	18.6	17.5	18.9	19.3	17.7	19.1	18.1	19.5	19.8
	3H	19.1	20.3	19.5	20.7	21.1	20.0	21.2	20.4	21.6	22.0
	4H	19.9	21.0	20.3	21.4	21.8	21.0	22.1	21.5	22.5	23.0
	6H	20.4	21.3	20.8	21.8	22.2	21.9	22.9	22.4	23.3	23.8
	8H	20.5	21.4	21.0	21.9	22.3	22.3	23.2	22.8	23.6	24.1
	12H	20.6	21.4	21.1	21.9	22.4	22.6	23.4	23.0	23.8	24.3
8H	4H	20.3	21.2	20.8	21.6	22.1	21.3	22.2	21.8	22.7	23.1
	6H	21.0	21.7	21.5	22.2	22.7	22.4	23.1	22.9	23.6	24.1
	8H	21.2	21.9	21.7	22.4	22.8	22.9	23.5	23.4	24.0	24.5
	12H	21.3	21.9	21.8	22.4	23.0	23.2	23.8	23.7	24.3	24.9
12H	4H	20.4	21.2	20.9	21.7	22.1	21.4	22.2	21.8	22.6	23.1
	6H	21.1	21.8	21.6	22.2	22.8	22.5	23.1	23.0	23.6	24.1
	8H	21.4	22.0	21.9	22.5	23.0	23.0	23.6	23.5	24.1	24.6

(END OF REPORT)