

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: P1590009

Luminaire Tested: 24CZSP-SB-75-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590009
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-75-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

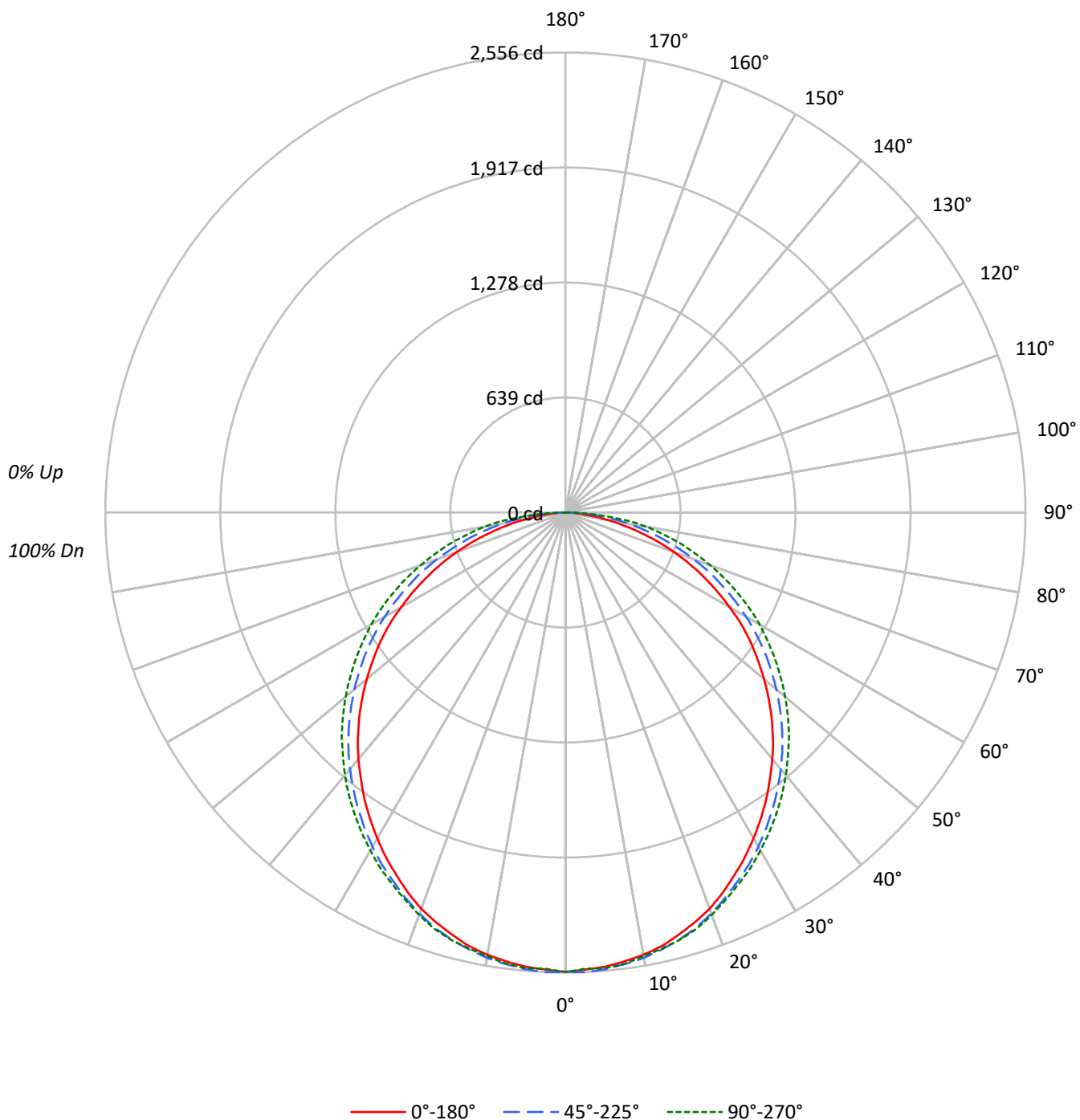
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7447.0 lumens
Efficiency: N/A
Efficacy: 125.2 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): 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			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°	3908	3908	3908
5°	3894	3916	3906
10°	3880	3907	3893
15°	3851	3891	3896
20°	3818	3864	3877
25°	3756	3822	3849
30°	3696	3791	3833
35°	3637	3754	3819
40°	3577	3722	3810
45°	3510	3687	3807
50°	3433	3647	3797
55°	3354	3607	3796
60°	3230	3553	3819
65°	3079	3485	3821
70°	2873	3388	3833
75°	2556	3265	3899
80°	2099	3128	4046
85°	1385	2937	3657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	3.2
10°-20°	690.9	9.3
20°-30°	1041.4	14.0
30°-40°	1254.1	16.8
40°-50°	1310.2	17.6
50°-60°	1203.7	16.2
60°-70°	947.9	12.7
70°-80°	581.2	7.8
80°-90°	176.2	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°	1973.7	26.5
0°-40°	3227.8	43.3
0°-60°	5741.7	77.1
0°-90°	7447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2552	2552	2552	2552	2552	
5°	2533	2538	2547	2544	2541	241
15°	2429	2438	2454	2464	2457	685
25°	2222	2237	2262	2285	2278	1025
35°	1945	1970	2008	2044	2043	1217
45°	1620	1655	1702	1750	1757	1250
55°	1256	1292	1351	1409	1422	1121
65°	850	894	962	1026	1054	840
75°	432	482	552	618	659	459
85°	79	117	167	186	208	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2551.8	2551.8	2551.8	2551.8	2551.8
2.5°	2542.3	2548.6	2556.5	2543.9	2537.6
5°	2532.9	2537.6	2547.1	2543.9	2540.8
7.5°	2515.5	2518.7	2531.3	2531.3	2528.1
10°	2495.0	2501.4	2512.4	2510.8	2502.9
12.5°	2468.3	2473.0	2485.6	2485.6	2480.9
15°	2428.8	2438.3	2454.1	2463.5	2457.2
17.5°	2387.9	2397.3	2417.8	2427.3	2424.1
20°	2342.2	2350.0	2370.5	2384.7	2378.4
22.5°	2285.4	2294.9	2318.5	2334.3	2328.0
25°	2222.4	2236.6	2261.8	2285.4	2277.5
27.5°	2159.3	2175.1	2206.6	2230.3	2227.1
30°	2090.0	2110.5	2143.6	2173.5	2167.2
32.5°	2019.0	2042.7	2077.4	2108.9	2107.3
35°	1945.0	1970.2	2008.0	2044.3	2042.7
37.5°	1866.2	1896.1	1935.5	1974.9	1976.5
40°	1788.9	1817.3	1861.4	1904.0	1905.6
42.5°	1707.0	1736.9	1784.2	1828.3	1829.9
45°	1620.3	1655.0	1702.2	1749.5	1757.4
47.5°	1532.0	1568.3	1617.1	1667.6	1677.0
50°	1440.6	1478.4	1530.4	1584.0	1593.5
52.5°	1347.6	1387.0	1440.6	1494.2	1508.4
55°	1256.2	1292.4	1350.8	1409.1	1421.7
57.5°	1160.0	1193.1	1256.2	1317.7	1333.4
60°	1054.4	1095.4	1160.0	1221.5	1246.7
62.5°	952.0	996.1	1062.3	1123.8	1152.2
65°	849.5	893.7	961.5	1026.1	1054.4
67.5°	745.5	791.2	863.7	925.2	956.7
70°	641.5	687.2	756.6	822.8	855.9
72.5°	537.5	586.3	654.1	721.9	755.0
75°	431.9	482.3	551.7	617.9	658.8
77.5°	332.6	381.4	450.8	518.6	553.2
80°	238.0	286.9	354.6	422.4	458.7
82.5°	151.3	197.0	263.2	320.0	353.1
85°	78.8	116.6	167.1	186.0	208.1
87.5°	23.6	45.7	64.6	72.5	89.8
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	16.2	17.9	16.6	18.2	18.5	17.0	18.7	17.4	19.0	19.3
	3H	18.0	19.5	18.4	19.8	20.2	19.1	20.6	19.5	20.9	21.3
	4H	18.6	20.1	19.0	20.4	20.8	20.0	21.4	20.4	21.7	22.1
	6H	19.0	20.4	19.5	20.7	21.1	20.7	22.1	21.2	22.4	22.8
	8H	19.2	20.4	19.6	20.8	21.2	21.1	22.3	21.5	22.7	23.1
	12H	19.2	20.4	19.6	20.8	21.2	21.3	22.5	21.7	22.9	23.3
4H	2H	17.0	18.4	17.4	18.8	19.2	17.6	19.0	18.0	19.4	19.7
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.3	21.5	21.9
	4H	19.8	20.9	20.2	21.3	21.7	21.0	22.0	21.4	22.5	22.9
	6H	20.3	21.3	20.8	21.7	22.1	21.9	22.8	22.3	23.3	23.7
	8H	20.5	21.3	20.9	21.8	22.2	22.3	23.2	22.7	23.6	24.1
	12H	20.5	21.3	21.0	21.8	22.3	22.6	23.4	23.0	23.8	24.3
8H	4H	20.2	21.1	20.7	21.6	22.0	21.3	22.2	21.7	22.6	23.1
	6H	20.9	21.6	21.4	22.1	22.6	22.3	23.1	22.8	23.6	24.1
	8H	21.1	21.8	21.6	22.3	22.8	22.8	23.5	23.3	24.0	24.5
	12H	21.3	21.9	21.8	22.3	22.9	23.2	23.8	23.7	24.3	24.8
12H	4H	20.3	21.1	20.8	21.6	22.0	21.3	22.1	21.8	22.6	23.0
	6H	21.0	21.7	21.6	22.2	22.7	22.4	23.1	22.9	23.5	24.1
	8H	21.3	21.9	21.8	22.4	23.0	23.0	23.5	23.5	24.0	24.6

(END OF REPORT)