

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: P1590027

Luminaire Tested: 24CZSP-SB-75VHE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590027
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-75VHE-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

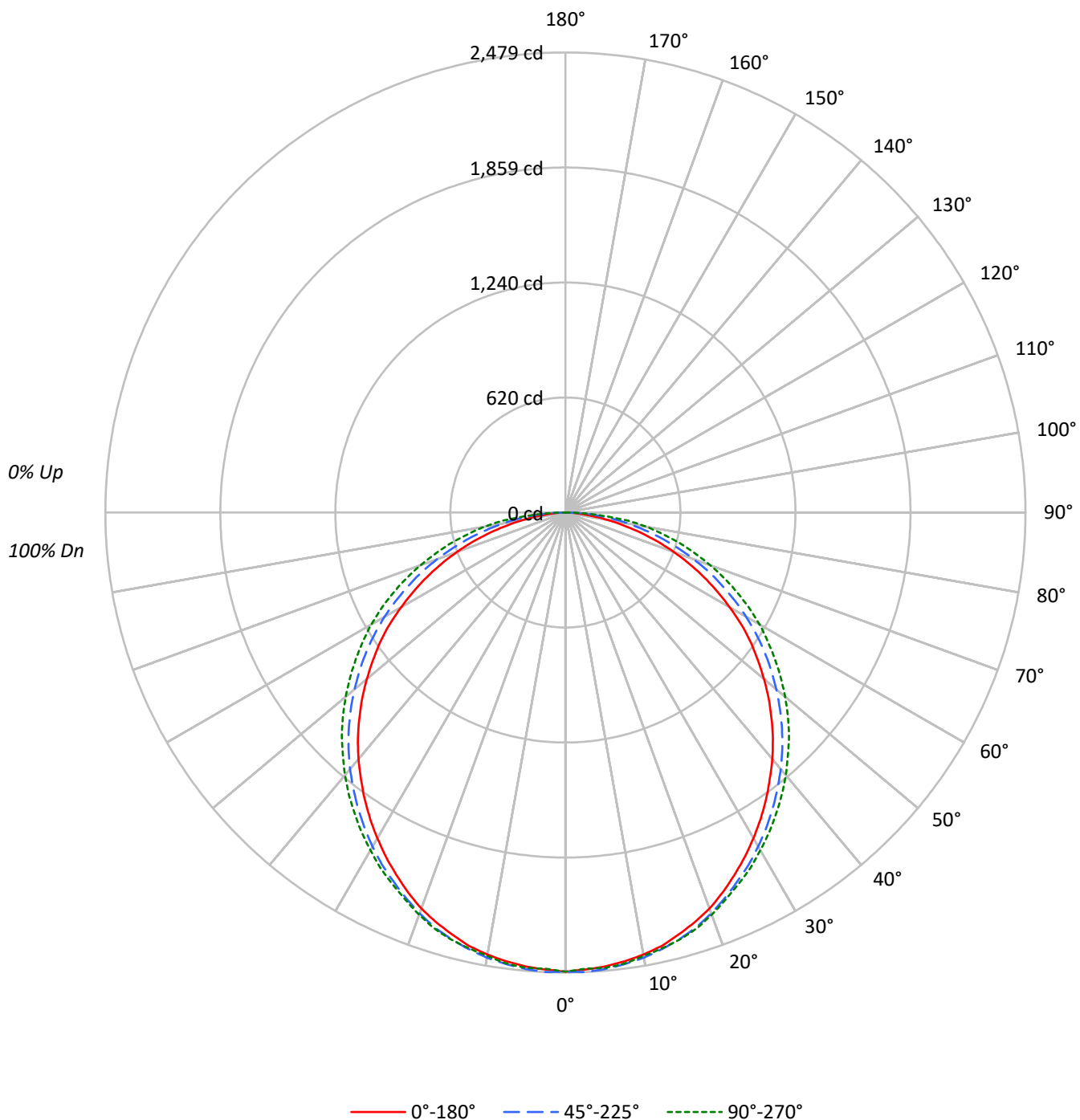
Lumens per Lamp: N/A
Luminaire Lumens: 7220.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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°	3789	3789	3789
5°	3776	3797	3787
10°	3762	3788	3774
15°	3734	3773	3778
20°	3701	3746	3758
25°	3641	3706	3732
30°	3584	3675	3716
35°	3526	3640	3703
40°	3468	3608	3694
45°	3403	3575	3691
50°	3328	3536	3681
55°	3252	3497	3681
60°	3132	3445	3703
65°	2985	3378	3705
70°	2785	3285	3716
75°	2478	3165	3780
80°	2035	3032	3922
85°	1343	2847	3545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4017 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	3.2
10°-20°	669.9	9.3
20°-30°	1009.6	14.0
30°-40°	1215.9	16.8
40°-50°	1270.3	17.6
50°-60°	1167.0	16.2
60°-70°	919.0	12.7
70°-80°	563.4	7.8
80°-90°	170.8	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°	1913.5	26.5
0°-40°	3129.4	43.3
0°-60°	5566.7	77.1
0°-90°	7220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2456	2460	2469	2466	2463	233
15°	2355	2364	2379	2388	2382	665
25°	2155	2168	2193	2216	2208	993
35°	1886	1910	1947	1982	1980	1179
45°	1571	1604	1650	1696	1704	1212
55°	1218	1253	1310	1366	1378	1087
65°	824	866	932	995	1022	814
75°	419	468	535	599	639	445
85°	76	113	162	180	202	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2474.0	2474.0	2474.0	2474.0	2474.0
2.5°	2464.8	2470.9	2478.6	2466.4	2460.3
5°	2455.7	2460.3	2469.4	2466.4	2463.3
7.5°	2438.9	2441.9	2454.1	2454.1	2451.1
10°	2419.0	2425.1	2435.8	2434.3	2426.6
12.5°	2393.0	2397.6	2409.8	2409.8	2405.2
15°	2354.8	2364.0	2379.3	2388.4	2382.3
17.5°	2315.1	2324.3	2344.1	2353.3	2350.2
20°	2270.8	2278.4	2298.3	2312.0	2305.9
22.5°	2215.8	2224.9	2247.8	2263.1	2257.0
25°	2154.6	2168.4	2192.8	2215.8	2208.1
27.5°	2093.5	2108.8	2139.3	2162.3	2159.2
30°	2026.3	2046.1	2078.2	2107.3	2101.1
32.5°	1957.5	1980.4	2014.0	2044.6	2043.1
35°	1885.7	1910.1	1946.8	1982.0	1980.4
37.5°	1809.3	1838.3	1876.5	1914.7	1916.2
40°	1734.4	1761.9	1804.7	1846.0	1847.5
42.5°	1654.9	1684.0	1729.8	1772.6	1774.1
45°	1570.9	1604.5	1650.4	1696.2	1703.8
47.5°	1485.3	1520.5	1567.8	1616.7	1625.9
50°	1396.7	1433.4	1483.8	1535.7	1544.9
52.5°	1306.5	1344.7	1396.7	1448.6	1462.4
55°	1217.9	1253.0	1309.6	1366.1	1378.4
57.5°	1124.7	1156.8	1217.9	1277.5	1292.8
60°	1022.3	1062.0	1124.7	1184.3	1208.7
62.5°	923.0	965.8	1029.9	1089.5	1117.0
65°	823.6	866.4	932.1	994.8	1022.3
67.5°	722.8	767.1	837.4	897.0	927.6
70°	621.9	666.3	733.5	797.7	829.8
72.5°	521.1	568.5	634.2	699.9	732.0
75°	418.7	467.6	534.8	599.0	638.7
77.5°	322.4	369.8	437.0	502.7	536.4
80°	230.7	278.1	343.8	409.5	444.7
82.5°	146.7	191.0	255.2	310.2	342.3
85°	76.4	113.1	162.0	180.3	201.7
87.5°	22.9	44.3	62.7	70.3	87.1
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	16.1	17.8	16.5	18.1	18.4	16.9	18.6	17.3	18.9	19.2
	3H	17.9	19.4	18.3	19.7	20.1	19.0	20.5	19.4	20.8	21.2
	4H	18.5	20.0	18.9	20.3	20.7	19.9	21.3	20.3	21.6	22.0
	6H	18.9	20.3	19.4	20.6	21.0	20.6	22.0	21.0	22.3	22.7
	8H	19.0	20.3	19.5	20.7	21.1	20.9	22.2	21.4	22.6	23.0
	12H	19.1	20.3	19.5	20.7	21.1	21.2	22.4	21.6	22.8	23.2
4H	2H	16.9	18.3	17.3	18.7	19.1	17.5	18.9	17.9	19.3	19.6
	3H	18.9	20.1	19.3	20.5	20.9	19.8	21.0	20.2	21.4	21.8
	4H	19.7	20.7	20.1	21.2	21.6	20.9	21.9	21.3	22.4	22.8
	6H	20.2	21.1	20.6	21.6	22.0	21.8	22.7	22.2	23.2	23.6
	8H	20.3	21.2	20.8	21.7	22.1	22.2	23.1	22.6	23.5	24.0
	12H	20.4	21.2	20.9	21.7	22.2	22.4	23.2	22.9	23.7	24.2
8H	4H	20.1	21.0	20.6	21.4	21.9	21.2	22.0	21.6	22.5	23.0
	6H	20.8	21.5	21.3	22.0	22.5	22.2	23.0	22.7	23.5	23.9
	8H	21.0	21.7	21.5	22.2	22.7	22.7	23.4	23.2	23.9	24.4
	12H	21.2	21.7	21.7	22.2	22.8	23.1	23.7	23.6	24.2	24.7
12H	4H	20.2	21.0	20.7	21.5	21.9	21.2	22.0	21.7	22.5	22.9
	6H	20.9	21.6	21.4	22.1	22.6	22.3	23.0	22.8	23.4	24.0
	8H	21.2	21.8	21.7	22.3	22.8	22.8	23.4	23.4	23.9	24.5

(END OF REPORT)