

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1588538

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-75VHE-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

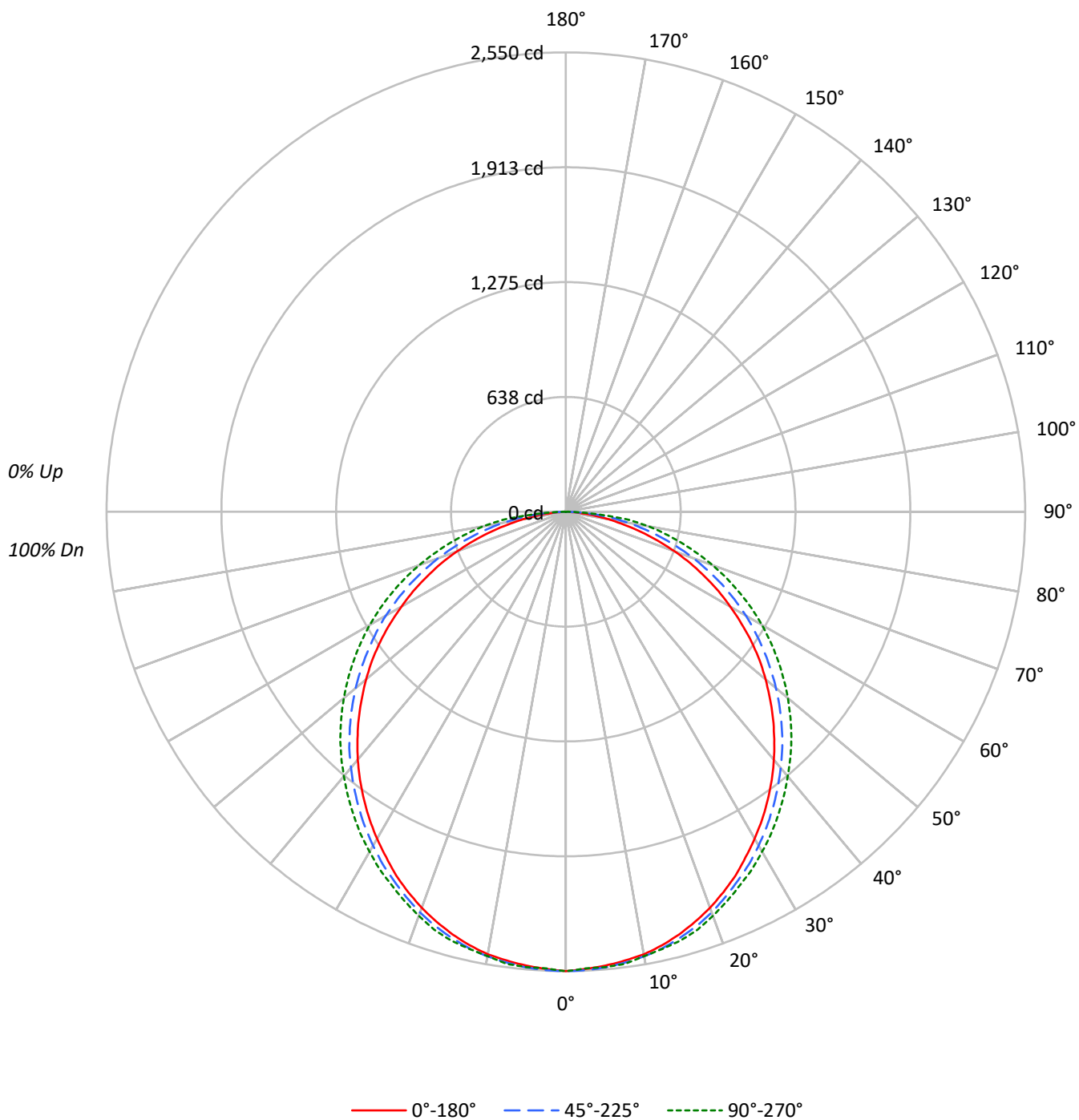
Lumens per Lamp: N/A
Luminaire Lumens: 7445.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: 24 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3906	3906	3906
5°	3888	3903	3901
10°	3880	3897	3895
15°	3852	3883	3906
20°	3813	3858	3890
25°	3766	3818	3865
30°	3707	3785	3854
35°	3653	3748	3843
40°	3593	3710	3831
45°	3524	3673	3836
50°	3449	3628	3834
55°	3359	3577	3839
60°	3233	3538	3848
65°	3085	3469	3860
70°	2875	3373	3877
75°	2562	3239	3915
80°	2118	3084	4107
85°	1378	2785	3588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	3.2
10°-20°	690.6	9.3
20°-30°	1041.5	14.0
30°-40°	1254.5	16.8
40°-50°	1310.1	17.6
50°-60°	1203.2	16.2
60°-70°	947.7	12.7
70°-80°	581.4	7.8
80°-90°	175.0	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°	1973.3	26.5
0°-40°	3227.7	43.4
0°-60°	5741.0	77.1
0°-90°	7445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2550	2550	2550	2550	2550	
5°	2529	2532	2539	2547	2537	240
15°	2429	2434	2449	2464	2464	685
25°	2228	2233	2259	2287	2287	1026
35°	1954	1964	2004	2045	2055	1222
45°	1627	1645	1696	1754	1771	1255
55°	1258	1281	1340	1415	1438	1123
65°	851	880	957	1037	1065	842
75°	433	467	547	634	662	459
85°	78	108	158	201	204	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.1	2550.1	2550.1	2550.1	2550.1
2.5°	2540.3	2545.2	2546.8	2548.5	2537.0
5°	2528.9	2532.1	2538.7	2546.8	2537.0
7.5°	2512.5	2515.8	2524.0	2535.4	2530.5
10°	2494.6	2496.2	2506.0	2514.2	2504.4
12.5°	2465.2	2470.1	2481.5	2488.0	2484.8
15°	2429.2	2434.1	2448.8	2463.5	2463.5
17.5°	2386.7	2393.3	2411.3	2430.9	2432.5
20°	2339.4	2344.3	2367.1	2386.7	2386.7
22.5°	2285.5	2292.0	2314.9	2336.1	2339.4
25°	2228.3	2233.2	2259.3	2287.1	2287.1
27.5°	2161.3	2171.1	2203.8	2231.6	2238.1
30°	2096.0	2104.1	2140.1	2174.4	2179.3
32.5°	2027.3	2037.1	2074.7	2112.3	2120.5
35°	1953.8	1963.6	2004.5	2045.3	2055.1
37.5°	1877.1	1888.5	1931.0	1978.3	1988.1
40°	1797.0	1810.1	1855.8	1906.5	1916.3
42.5°	1712.1	1730.0	1779.0	1831.3	1846.0
45°	1627.1	1645.1	1695.7	1754.5	1770.9
47.5°	1537.3	1558.5	1610.8	1672.8	1690.8
50°	1447.4	1468.6	1522.6	1589.5	1609.1
52.5°	1355.9	1377.2	1432.7	1502.9	1524.2
55°	1257.9	1280.8	1339.6	1414.7	1437.6
57.5°	1156.6	1186.0	1248.1	1324.9	1347.8
60°	1055.3	1084.7	1155.0	1230.1	1256.3
62.5°	955.7	983.5	1055.3	1135.4	1163.2
65°	851.1	880.5	957.3	1037.4	1065.1
67.5°	748.2	777.6	854.4	937.7	967.1
70°	642.0	674.7	753.1	836.4	865.8
72.5°	535.8	570.1	650.2	735.1	762.9
75°	432.9	467.2	547.3	633.9	661.6
77.5°	331.6	369.2	447.6	535.8	562.0
80°	240.1	276.1	349.6	436.2	465.6
82.5°	153.6	184.6	258.1	339.8	361.0
85°	78.4	107.8	158.5	200.9	204.2
87.5°	24.5	34.3	52.3	78.4	80.0
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	16.21	17.87	16.58	18.19	18.50	17.04	18.70	17.41	19.02	19.33
	3H	17.97	19.47	18.34	19.80	20.16	19.16	20.67	19.53	20.99	21.35
	4H	18.59	20.01	18.98	20.36	20.73	20.05	21.47	20.44	21.82	22.19
	6H	19.00	20.32	19.41	20.68	21.07	20.83	22.15	21.24	22.51	22.90
	8H	19.10	20.37	19.53	20.76	21.15	21.15	22.41	21.57	22.80	23.20
	12H	19.16	20.37	19.58	20.75	21.18	21.36	22.57	21.79	22.95	23.38
4H	2H	16.98	18.41	17.38	18.75	19.13	17.63	19.05	18.03	19.40	19.77
	3H	18.96	20.16	19.37	20.56	20.95	19.98	21.18	20.39	21.58	21.98
	4H	19.70	20.78	20.13	21.20	21.63	21.04	22.12	21.47	22.54	22.97
	6H	20.23	21.18	20.68	21.62	22.07	21.99	22.94	22.44	23.38	23.83
	8H	20.37	21.26	20.83	21.71	22.17	22.39	23.28	22.85	23.72	24.18
	12H	20.46	21.26	20.94	21.73	22.20	22.66	23.47	23.14	23.94	24.41
8H	4H	20.16	21.05	20.62	21.49	21.95	21.33	22.22	21.78	22.66	23.12
	6H	20.82	21.56	21.31	22.05	22.52	22.44	23.18	22.93	23.67	24.14
	8H	21.03	21.70	21.54	22.20	22.69	22.95	23.62	23.46	24.12	24.61
	12H	21.17	21.76	21.67	22.25	22.81	23.34	23.93	23.84	24.42	24.98
12H	4H	20.25	21.05	20.72	21.52	21.99	21.35	22.15	21.83	22.63	23.10
	6H	20.95	21.62	21.46	22.12	22.61	22.48	23.15	22.99	23.66	24.14
	8H	21.23	21.82	21.73	22.31	22.87	23.06	23.66	23.57	24.14	24.70