

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: P1588876

Luminaire Tested: 24CZSP-A-75VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588876
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-A-75VHE-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

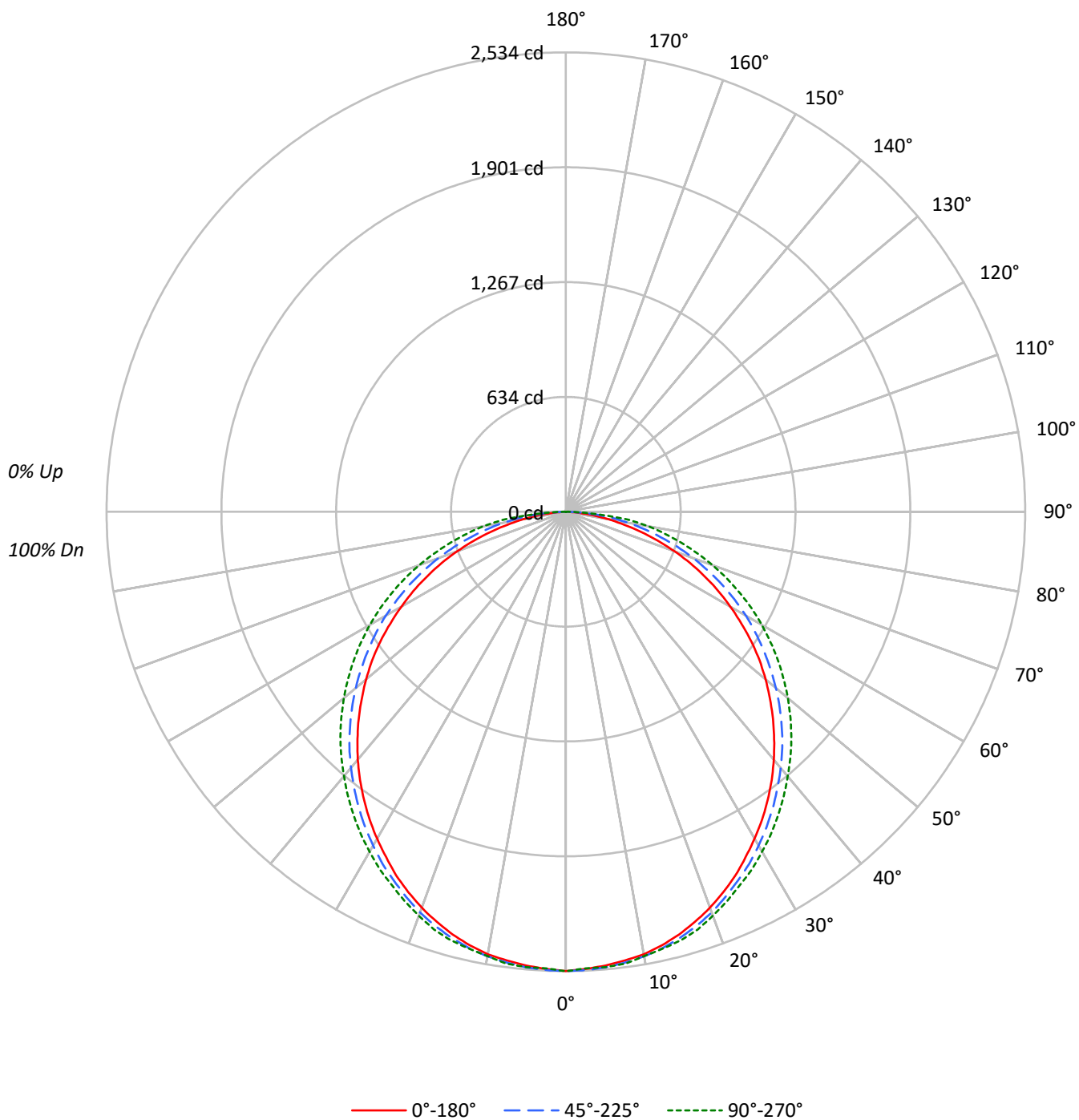
Lumens per Lamp: N/A
Luminaire Lumens: 7397.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	69
3	89	79	70	64	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°	3881	3881	3881
5°	3863	3878	3876
10°	3855	3872	3870
15°	3827	3858	3881
20°	3788	3833	3865
25°	3741	3794	3840
30°	3683	3761	3829
35°	3630	3724	3818
40°	3570	3686	3807
45°	3502	3649	3811
50°	3427	3604	3810
55°	3337	3554	3814
60°	3212	3515	3824
65°	3065	3447	3835
70°	2857	3351	3852
75°	2545	3217	3890
80°	2105	3063	4080
85°	1369	2766	3566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4209 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	3.2
10°-20°	686.1	9.3
20°-30°	1034.8	14.0
30°-40°	1246.4	16.8
40°-50°	1301.7	17.6
50°-60°	1195.4	16.2
60°-70°	941.5	12.7
70°-80°	577.6	7.8
80°-90°	173.8	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°	1960.5	26.5
0°-40°	3206.9	43.4
0°-60°	5704.0	77.1
0°-90°	7397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2534	2534	2534	2534	2534	
5°	2513	2516	2522	2530	2521	239
15°	2414	2418	2433	2448	2448	681
25°	2214	2219	2245	2272	2272	1019
35°	1941	1951	1992	2032	2042	1214
45°	1617	1634	1685	1743	1759	1246
55°	1250	1272	1331	1406	1428	1116
65°	846	875	951	1031	1058	837
75°	430	464	544	630	657	456
85°	78	107	157	200	203	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533.7	2533.7	2533.7	2533.7	2533.7
2.5°	2523.9	2528.8	2530.4	2532.0	2520.7
5°	2512.6	2515.8	2522.3	2530.4	2520.7
7.5°	2496.3	2499.6	2507.7	2519.1	2514.2
10°	2478.5	2480.1	2489.8	2498.0	2488.2
12.5°	2449.3	2454.1	2465.5	2472.0	2468.7
15°	2413.6	2418.4	2433.0	2447.6	2447.6
17.5°	2371.4	2377.9	2395.7	2415.2	2416.8
20°	2324.3	2329.2	2351.9	2371.4	2371.4
22.5°	2270.7	2277.2	2299.9	2321.0	2324.3
25°	2213.9	2218.8	2244.8	2272.3	2272.3
27.5°	2147.4	2157.1	2189.6	2217.2	2223.7
30°	2082.4	2090.6	2126.3	2160.4	2165.2
32.5°	2014.3	2024.0	2061.3	2098.7	2106.8
35°	1941.2	1951.0	1991.6	2032.1	2041.9
37.5°	1864.9	1876.3	1918.5	1965.6	1975.3
40°	1785.4	1798.4	1843.8	1894.2	1903.9
42.5°	1701.0	1718.9	1767.6	1819.5	1834.1
45°	1616.6	1634.5	1684.8	1743.2	1759.4
47.5°	1527.3	1548.4	1600.4	1662.1	1679.9
50°	1438.1	1459.2	1512.7	1579.3	1598.8
52.5°	1347.2	1368.3	1423.5	1493.3	1514.4
55°	1249.8	1272.5	1330.9	1405.6	1428.3
57.5°	1149.2	1178.4	1240.1	1316.3	1339.1
60°	1048.5	1077.7	1147.5	1222.2	1248.2
62.5°	949.5	977.1	1048.5	1128.1	1155.7
65°	845.6	874.9	951.1	1030.7	1058.3
67.5°	743.4	772.6	848.9	931.7	960.9
70°	637.9	670.3	748.3	831.0	860.2
72.5°	532.4	566.5	646.0	730.4	758.0
75°	430.1	464.2	543.7	629.8	657.4
77.5°	329.5	366.8	444.7	532.4	558.3
80°	238.6	274.3	347.3	433.4	462.6
82.5°	152.6	183.4	256.5	337.6	358.7
85°	77.9	107.1	157.4	199.6	202.9
87.5°	24.3	34.1	51.9	77.9	79.5
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	16.19	17.85	16.55	18.17	18.48	17.02	18.68	17.38	19.00	19.31
	3H	17.94	19.45	18.32	19.78	20.14	19.14	20.64	19.51	20.97	21.33
	4H	18.56	19.99	18.96	20.33	20.71	20.02	21.45	20.42	21.79	22.17
	6H	18.97	20.30	19.38	20.66	21.05	20.81	22.13	21.22	22.49	22.88
	8H	19.08	20.34	19.51	20.73	21.13	21.13	22.39	21.55	22.78	23.18
	12H	19.13	20.34	19.56	20.73	21.15	21.34	22.55	21.77	22.93	23.36
4H	2H	16.96	18.38	17.36	18.73	19.11	17.61	19.03	18.00	19.38	19.75
	3H	18.94	20.14	19.35	20.53	20.93	19.96	21.16	20.37	21.56	21.96
	4H	19.68	20.76	20.11	21.17	21.61	21.01	22.10	21.44	22.51	22.95
	6H	20.20	21.16	20.66	21.60	22.05	21.97	22.92	22.42	23.36	23.81
	8H	20.35	21.24	20.81	21.68	22.15	22.36	23.26	22.82	23.70	24.16
	12H	20.43	21.24	20.91	21.71	22.18	22.64	23.44	23.12	23.92	24.39
8H	4H	20.13	21.03	20.59	21.47	21.93	21.30	22.20	21.76	22.64	23.10
	6H	20.80	21.54	21.29	22.03	22.50	22.42	23.16	22.91	23.65	24.12
	8H	21.01	21.67	21.51	22.18	22.66	22.93	23.60	23.43	24.10	24.59
	12H	21.15	21.74	21.65	22.23	22.79	23.31	23.90	23.82	24.39	24.95
12H	4H	20.22	21.03	20.70	21.50	21.97	21.33	22.13	21.81	22.61	23.07
	6H	20.93	21.60	21.43	22.10	22.59	22.46	23.13	22.97	23.64	24.12
	8H	21.21	21.80	21.71	22.29	22.85	23.04	23.63	23.55	24.12	24.68