

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: P1588890

Luminaire Tested: 24CZSP-A-75VHE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588890
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-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

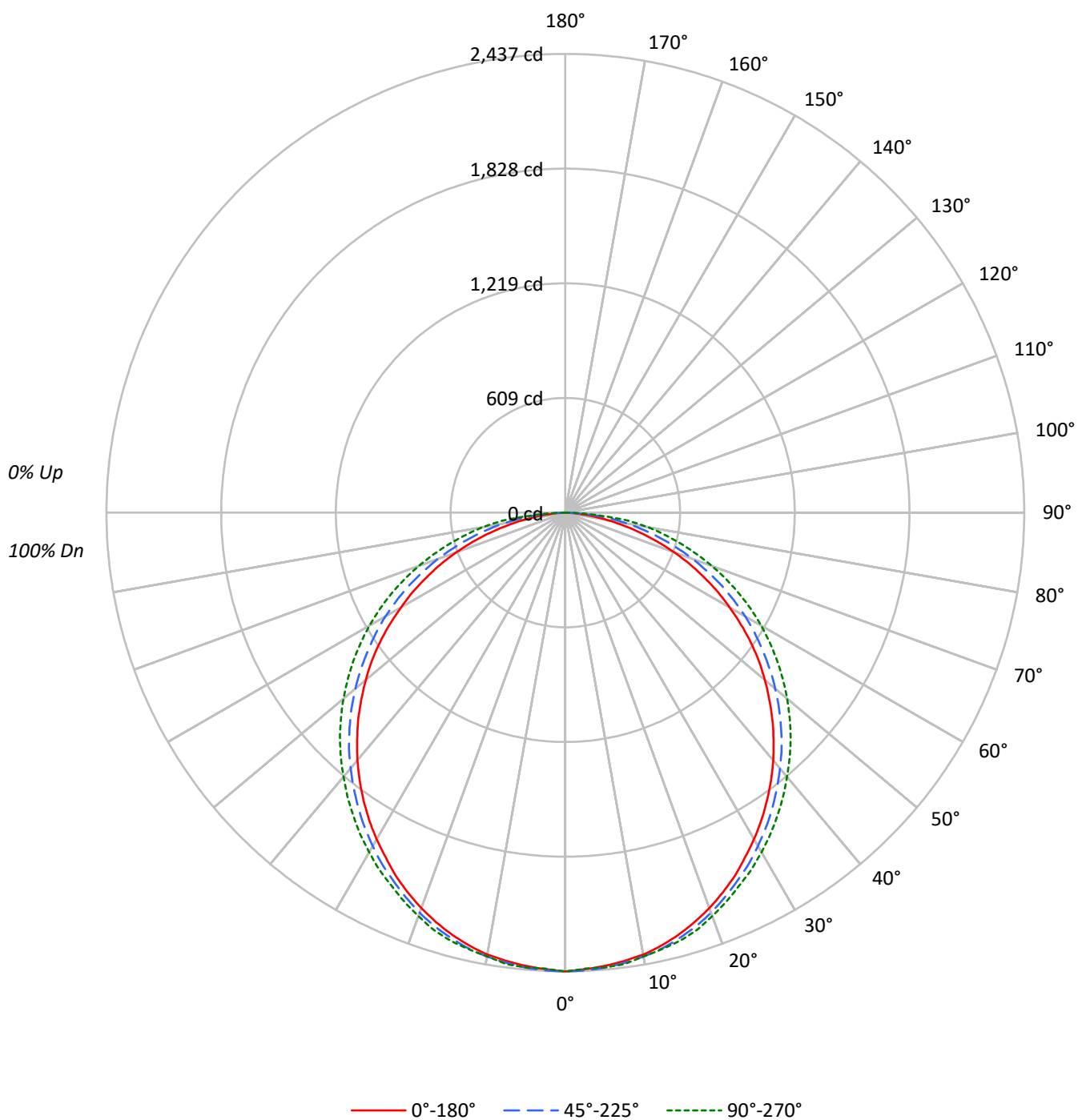
Lumens per Lamp: N/A
Luminaire Lumens: 7116.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3733	3733	3733
5°	3716	3731	3728
10°	3708	3725	3723
15°	3682	3711	3734
20°	3645	3688	3718
25°	3599	3649	3694
30°	3543	3618	3684
35°	3492	3582	3673
40°	3434	3547	3662
45°	3369	3511	3666
50°	3296	3468	3665
55°	3211	3419	3669
60°	3090	3382	3678
65°	2948	3316	3690
70°	2748	3223	3706
75°	2449	3096	3742
80°	2024	2947	3925
85°	1316	2662	3430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	3.2
10°-20°	660.1	9.3
20°-30°	995.5	14.0
30°-40°	1199.0	16.8
40°-50°	1252.2	17.6
50°-60°	1150.0	16.2
60°-70°	905.8	12.7
70°-80°	555.7	7.8
80°-90°	167.2	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°	1886.1	26.5
0°-40°	3085.1	43.4
0°-60°	5487.3	77.1
0°-90°	7116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2437	2437	2437	2437	2437	
5°	2417	2420	2426	2434	2425	230
15°	2322	2327	2341	2355	2355	655
25°	2130	2134	2160	2186	2186	980
35°	1868	1877	1916	1955	1964	1168
45°	1555	1572	1621	1677	1693	1199
55°	1202	1224	1280	1352	1374	1073
65°	814	842	915	992	1018	805
75°	414	447	523	606	632	439
85°	75	103	152	192	195	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2437.4	2437.4	2437.4	2437.4	2437.4
2.5°	2428.1	2432.7	2434.3	2435.9	2424.9
5°	2417.1	2420.2	2426.5	2434.3	2424.9
7.5°	2401.5	2404.6	2412.4	2423.4	2418.7
10°	2384.3	2385.9	2395.3	2403.1	2393.7
12.5°	2356.2	2360.9	2371.8	2378.1	2375.0
15°	2321.9	2326.6	2340.6	2354.7	2354.7
17.5°	2281.3	2287.5	2304.7	2323.4	2325.0
20°	2236.0	2240.7	2262.5	2281.3	2281.3
22.5°	2184.5	2190.7	2212.6	2232.9	2236.0
25°	2129.8	2134.5	2159.5	2186.0	2186.0
27.5°	2065.8	2075.2	2106.4	2132.9	2139.2
30°	2003.3	2011.1	2045.5	2078.3	2083.0
32.5°	1937.8	1947.1	1983.0	2019.0	2026.8
35°	1867.5	1876.9	1915.9	1954.9	1964.3
37.5°	1794.1	1805.0	1845.6	1890.9	1900.3
40°	1717.6	1730.1	1773.8	1822.2	1831.6
42.5°	1636.4	1653.6	1700.4	1750.4	1764.4
45°	1555.2	1572.4	1620.8	1677.0	1692.6
47.5°	1469.3	1489.6	1539.6	1598.9	1616.1
50°	1383.4	1403.7	1455.3	1519.3	1538.0
52.5°	1296.0	1316.3	1369.4	1436.5	1456.8
55°	1202.3	1224.2	1280.4	1352.2	1374.1
57.5°	1105.5	1133.6	1192.9	1266.3	1288.2
60°	1008.7	1036.8	1103.9	1175.8	1200.8
62.5°	913.4	940.0	1008.7	1085.2	1111.8
65°	813.5	841.6	915.0	991.5	1018.1
67.5°	715.1	743.2	816.6	896.3	924.4
70°	613.6	644.9	719.8	799.5	827.6
72.5°	512.2	544.9	621.5	702.7	729.2
75°	413.8	446.6	523.1	605.8	632.4
77.5°	317.0	352.9	427.8	512.2	537.1
80°	229.5	263.9	334.1	416.9	445.0
82.5°	146.8	176.4	246.7	324.8	345.1
85°	74.9	103.1	151.5	192.1	195.2
87.5°	23.4	32.8	50.0	74.9	76.5
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	16.05	17.72	16.42	18.03	18.35	16.88	18.55	17.25	18.86	19.18
	3H	17.81	19.32	18.19	19.64	20.00	19.00	20.51	19.38	20.83	21.19
	4H	18.43	19.85	18.83	20.20	20.57	19.89	21.31	20.29	21.66	22.03
	6H	18.84	20.16	19.25	20.52	20.91	20.67	21.99	21.08	22.36	22.75
	8H	18.95	20.21	19.37	20.60	21.00	20.99	22.25	21.42	22.64	23.04
	12H	19.00	20.21	19.43	20.59	21.02	21.20	22.41	21.63	22.79	23.22
4H	2H	16.83	18.25	17.22	18.60	18.97	17.47	18.90	17.87	19.24	19.62
	3H	18.80	20.00	19.21	20.40	20.80	19.83	21.03	20.24	21.42	21.82
	4H	19.54	20.63	19.97	21.04	21.47	20.88	21.97	21.31	22.38	22.81
	6H	20.07	21.02	20.52	21.46	21.91	21.83	22.78	22.28	23.22	23.68
	8H	20.22	21.11	20.67	21.55	22.01	22.23	23.12	22.69	23.56	24.03
	12H	20.30	21.10	20.78	21.58	22.05	22.51	23.31	22.99	23.78	24.25
8H	4H	20.00	20.89	20.46	21.33	21.80	21.17	22.06	21.63	22.50	22.97
	6H	20.66	21.41	21.15	21.89	22.37	22.28	23.03	22.77	23.51	23.99
	8H	20.87	21.54	21.38	22.04	22.53	22.79	23.46	23.30	23.97	24.45
	12H	21.01	21.60	21.52	22.09	22.65	23.18	23.77	23.68	24.26	24.82
12H	4H	20.09	20.89	20.57	21.37	21.84	21.19	22.00	21.67	22.47	22.94
	6H	20.79	21.46	21.30	21.97	22.45	22.33	23.00	22.83	23.50	23.99
	8H	21.07	21.66	21.58	22.15	22.71	22.91	23.50	23.41	23.99	24.55

END OF REPORT