

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: P1588541

Luminaire Tested: 24CZSP-75VHE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-75VHE-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

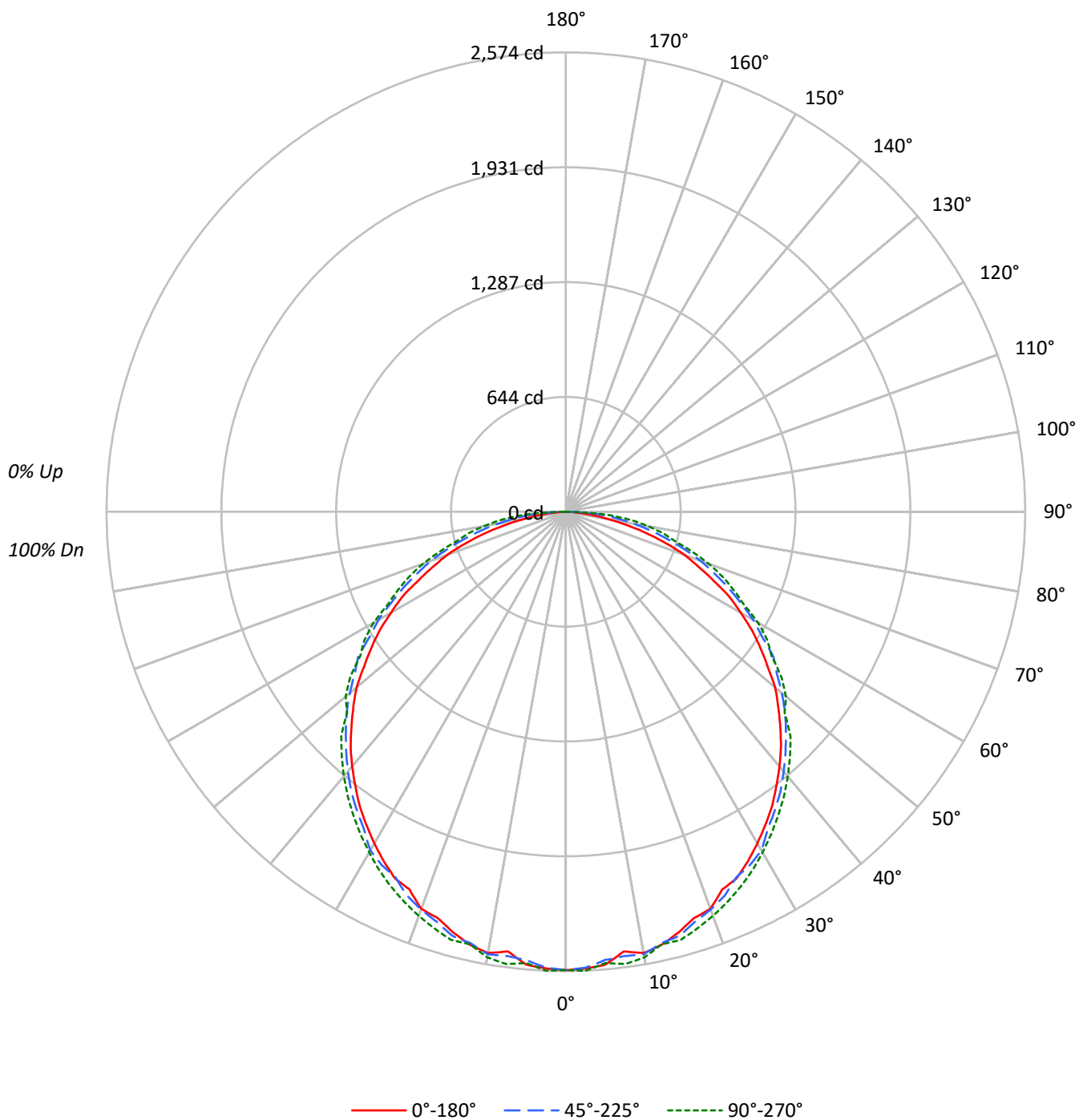
Lumens per Lamp: N/A
Luminaire Lumens: 7667.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588541

CATALOG NUMBER: 24CZSP-75VHE-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1588541

CATALOG NUMBER: 24CZSP-75VHE-L850

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3917	3877	3902
10°	3905	3915	3942
15°	3869	3900	3938
20°	3859	3866	3928
25°	3829	3818	3917
30°	3795	3876	3898
35°	3766	3819	3881
40°	3724	3798	3868
45°	3678	3777	3854
50°	3648	3762	3837
55°	3556	3796	3757
60°	3465	3715	3811
65°	3310	3635	3759
70°	3173	3603	3814
75°	2810	3496	3736
80°	2218	3415	4133
85°	1357	3650	4713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4713 cd/sqm

TEST NUMBER: P1588541

CATALOG NUMBER: 24CZSP-75VHE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	3.2
10°-20°	692.8	9.0
20°-30°	1055.6	13.8
30°-40°	1284.9	16.8
40°-50°	1347.3	17.6
50°-60°	1248.1	16.3
60°-70°	984.2	12.8
70°-80°	608.8	7.9
80°-90°	202.8	2.6
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°	1991.0	26.0
0°-40°	3275.9	42.7
0°-60°	5871.2	76.6
0°-90°	7667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2547	2546	2521	2577	2538	240
15°	2440	2452	2460	2442	2484	689
25°	2266	2278	2259	2322	2318	1041
35°	2014	2033	2042	2081	2076	1259
45°	1698	1729	1744	1764	1779	1312
55°	1332	1371	1421	1434	1407	1191
65°	913	949	1003	1040	1037	909
75°	475	512	591	636	631	501
85°	77	132	208	253	268	104
90°	0	0	0	0	0	

TEST NUMBER: P1588541

CATALOG NUMBER: 24CZSP-75VHE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2568.3	2568.3	2568.3	2568.3	2568.3
2.5°	2561.0	2576.7	2556.8	2573.5	2573.5
5°	2547.4	2546.4	2521.4	2576.7	2538.1
7.5°	2484.8	2528.7	2510.9	2578.8	2555.8
10°	2510.9	2499.4	2517.2	2563.1	2534.9
12.5°	2484.8	2503.6	2475.4	2452.5	2481.7
15°	2440.0	2452.5	2459.8	2442.0	2483.8
17.5°	2386.7	2433.7	2408.6	2400.3	2448.3
20°	2367.9	2370.0	2372.1	2414.9	2409.7
22.5°	2290.7	2332.5	2327.2	2361.7	2365.9
25°	2265.7	2278.2	2259.4	2322.0	2317.9
27.5°	2208.3	2235.4	2232.3	2253.2	2264.6
30°	2145.7	2172.8	2191.6	2168.6	2204.1
32.5°	2081.0	2126.9	2106.0	2148.8	2141.5
35°	2014.2	2032.9	2042.3	2081.0	2075.7
37.5°	1936.9	1969.3	1974.5	2032.9	2007.9
40°	1862.8	1895.2	1899.4	1933.8	1934.8
42.5°	1784.6	1800.2	1822.1	1861.8	1858.7
45°	1698.0	1729.3	1743.9	1763.7	1779.4
47.5°	1614.5	1647.9	1666.6	1699.0	1662.5
50°	1531.0	1555.0	1579.0	1613.4	1610.3
52.5°	1425.6	1479.8	1491.3	1510.1	1522.6
55°	1331.6	1371.3	1421.4	1433.9	1406.8
57.5°	1236.7	1266.9	1303.5	1342.1	1338.9
60°	1131.3	1167.8	1212.7	1241.9	1244.0
62.5°	1035.3	1060.3	1103.1	1145.9	1124.0
65°	913.2	948.6	1002.9	1040.5	1037.3
67.5°	804.6	843.2	898.5	947.6	949.7
70°	708.6	729.5	804.6	842.2	851.6
72.5°	590.7	627.2	694.0	735.7	739.9
75°	474.8	512.4	590.7	635.6	631.4
77.5°	356.9	411.2	487.4	540.6	558.3
80°	251.5	300.6	387.2	439.4	468.6
82.5°	158.6	209.8	294.3	359.0	376.7
85°	77.2	131.5	207.7	252.6	268.2
87.5°	19.8	54.3	96.0	117.9	127.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588541

CATALOG NUMBER: 24CZSP-75VHE-L850

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	16.56	18.23	16.93	18.55	18.86	16.99	18.66	17.36	18.98	19.29
	3H	18.36	19.88	18.74	20.20	20.56	19.06	20.58	19.44	20.91	21.27
	4H	19.01	20.44	19.40	20.78	21.16	19.91	21.34	20.30	21.69	22.06
	6H	19.42	20.75	19.83	21.11	21.50	20.70	22.03	21.11	22.39	22.78
	8H	19.52	20.79	19.94	21.18	21.58	21.04	22.31	21.46	22.70	23.10
	12H	19.56	20.78	19.99	21.16	21.59	21.34	22.56	21.77	22.94	23.37
4H	2H	17.30	18.73	17.70	19.08	19.45	17.63	19.07	18.03	19.41	19.79
	3H	19.33	20.54	19.74	20.94	21.34	19.95	21.15	20.36	21.55	21.95
	4H	20.11	21.20	20.54	21.61	22.05	20.95	22.05	21.38	22.46	22.90
	6H	20.64	21.60	21.09	22.04	22.50	21.90	22.87	22.36	23.31	23.76
	8H	20.79	21.69	21.24	22.13	22.59	22.33	23.23	22.79	23.67	24.13
	12H	20.87	21.68	21.35	22.15	22.62	22.71	23.52	23.19	23.99	24.46
8H	4H	20.56	21.46	21.01	21.90	22.36	21.29	22.19	21.75	22.63	23.10
	6H	21.23	21.99	21.73	22.47	22.95	22.41	23.16	22.90	23.65	24.12
	8H	21.45	22.13	21.96	22.63	23.12	22.95	23.63	23.46	24.14	24.62
	12H	21.60	22.20	22.10	22.69	23.25	23.47	24.07	23.98	24.56	25.12
12H	4H	20.64	21.45	21.12	21.93	22.39	21.33	22.14	21.80	22.61	23.08
	6H	21.37	22.05	21.88	22.55	23.04	22.47	23.15	22.98	23.66	24.14
	8H	21.66	22.26	22.17	22.75	23.31	23.10	23.70	23.60	24.19	24.74