

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: P1588874

Luminaire Tested: 24CZSP-A-75VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588874
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

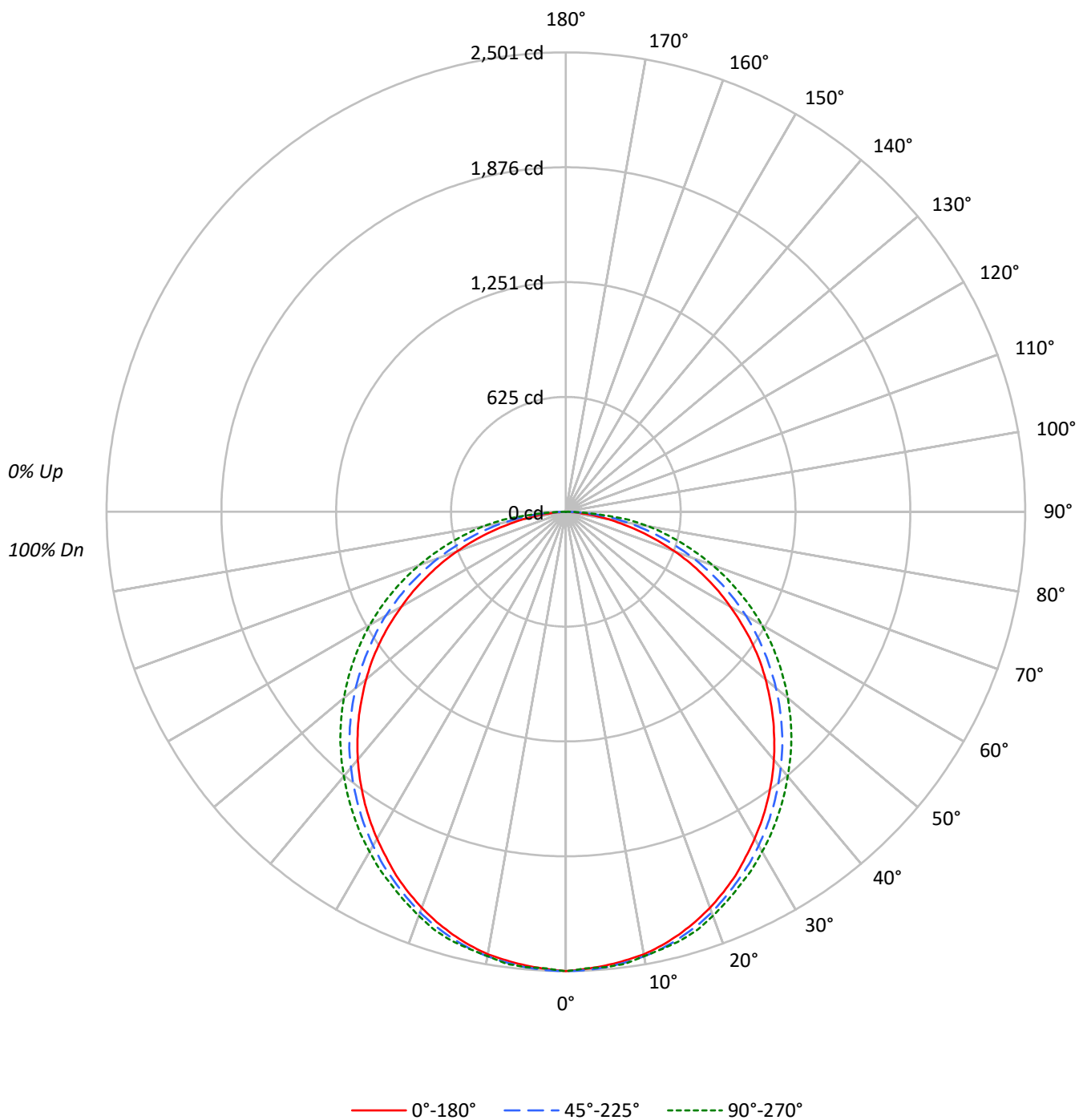
Lumens per Lamp: N/A
Luminaire Lumens: 7302.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3831	3831	3831
5°	3813	3828	3826
10°	3805	3823	3820
15°	3778	3808	3831
20°	3740	3784	3815
25°	3693	3745	3791
30°	3636	3712	3780
35°	3583	3676	3769
40°	3524	3639	3758
45°	3457	3602	3762
50°	3383	3558	3761
55°	3294	3509	3765
60°	3171	3470	3774
65°	3025	3403	3786
70°	2820	3308	3803
75°	2513	3177	3840
80°	2077	3024	4027
85°	1351	2731	3520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4155 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	3.2
10°-20°	677.3	9.3
20°-30°	1021.5	14.0
30°-40°	1230.4	16.8
40°-50°	1284.9	17.6
50°-60°	1180.1	16.2
60°-70°	929.5	12.7
70°-80°	570.2	7.8
80°-90°	171.6	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°	1935.4	26.5
0°-40°	3165.7	43.4
0°-60°	5630.7	77.1
0°-90°	7302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2501	2501	2501	2501	2501	
5°	2480	2484	2490	2498	2488	236
15°	2383	2387	2402	2416	2416	672
25°	2186	2190	2216	2243	2243	1006
35°	1916	1926	1966	2006	2016	1199
45°	1596	1614	1663	1721	1737	1230
55°	1234	1256	1314	1388	1410	1101
65°	835	864	939	1017	1045	826
75°	425	458	537	622	649	450
85°	77	106	155	197	200	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2501.1	2501.1	2501.1	2501.1	2501.1
2.5°	2491.5	2496.3	2497.9	2499.5	2488.3
5°	2480.3	2483.5	2489.9	2497.9	2488.3
7.5°	2464.3	2467.5	2475.5	2486.7	2481.9
10°	2446.7	2448.3	2457.9	2465.9	2456.3
12.5°	2417.8	2422.6	2433.8	2440.2	2437.0
15°	2382.6	2387.4	2401.8	2416.2	2416.2
17.5°	2340.9	2347.3	2364.9	2384.2	2385.8
20°	2294.4	2299.2	2321.7	2340.9	2340.9
22.5°	2241.6	2248.0	2270.4	2291.2	2294.4
25°	2185.5	2190.3	2215.9	2243.2	2243.2
27.5°	2119.8	2129.4	2161.5	2188.7	2195.1
30°	2055.7	2063.7	2099.0	2132.6	2137.4
32.5°	1988.4	1998.0	2034.9	2071.7	2079.7
35°	1916.3	1925.9	1966.0	2006.0	2015.6
37.5°	1841.0	1852.2	1893.9	1940.3	1950.0
40°	1762.5	1775.3	1820.2	1869.8	1879.5
42.5°	1679.2	1696.8	1744.9	1796.1	1810.6
45°	1595.9	1613.5	1663.1	1720.8	1736.9
47.5°	1507.7	1528.6	1579.8	1640.7	1658.3
50°	1419.6	1440.4	1493.3	1559.0	1578.2
52.5°	1329.9	1350.7	1405.2	1474.1	1494.9
55°	1233.7	1256.2	1313.9	1387.6	1410.0
57.5°	1134.4	1163.2	1224.1	1299.4	1321.9
60°	1035.1	1063.9	1132.8	1206.5	1232.1
62.5°	937.3	964.6	1035.1	1113.6	1140.8
65°	834.8	863.6	938.9	1017.4	1044.7
67.5°	733.8	762.7	838.0	919.7	948.5
70°	629.7	661.7	738.6	820.4	849.2
72.5°	525.5	559.2	637.7	721.0	748.3
75°	424.6	458.2	536.8	621.7	648.9
77.5°	325.3	362.1	439.0	525.5	551.2
80°	235.5	270.8	342.9	427.8	456.6
82.5°	150.6	181.1	253.2	333.3	354.1
85°	76.9	105.7	155.4	197.1	200.3
87.5°	24.0	33.6	51.3	76.9	78.5
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	16.14	17.81	16.51	18.12	18.43	16.97	18.64	17.34	18.95	19.27
	3H	17.90	19.41	18.28	19.73	20.09	19.09	20.60	19.47	20.92	21.28
	4H	18.52	19.94	18.92	20.29	20.66	19.98	21.40	20.38	21.75	22.12
	6H	18.93	20.25	19.34	20.61	21.00	20.76	22.08	21.17	22.45	22.84
	8H	19.04	20.30	19.46	20.69	21.09	21.08	22.34	21.50	22.73	23.13
	12H	19.09	20.30	19.52	20.68	21.11	21.29	22.50	21.72	22.88	23.31
4H	2H	16.92	18.34	17.31	18.69	19.06	17.56	18.98	17.96	19.33	19.71
	3H	18.89	20.09	19.30	20.49	20.89	19.92	21.12	20.33	21.51	21.91
	4H	19.63	20.72	20.06	21.13	21.56	20.97	22.06	21.40	22.47	22.90
	6H	20.16	21.11	20.61	21.55	22.00	21.92	22.87	22.37	23.31	23.77
	8H	20.30	21.20	20.76	21.64	22.10	22.32	23.21	22.78	23.65	24.12
	12H	20.39	21.19	20.87	21.67	22.13	22.60	23.40	23.07	23.87	24.34
8H	4H	20.09	20.98	20.55	21.42	21.89	21.26	22.15	21.72	22.59	23.06
	6H	20.75	21.49	21.24	21.98	22.45	22.37	23.11	22.86	23.60	24.08
	8H	20.96	21.63	21.47	22.13	22.62	22.88	23.55	23.39	24.06	24.54
	12H	21.10	21.69	21.61	22.18	22.74	23.27	23.86	23.77	24.35	24.91
12H	4H	20.18	20.98	20.66	21.46	21.92	21.28	22.09	21.76	22.56	23.03
	6H	20.88	21.55	21.39	22.06	22.54	22.42	23.09	22.92	23.59	24.08
	8H	21.16	21.75	21.67	22.24	22.80	23.00	23.59	23.50	24.08	24.64