

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: P1588875

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588875
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-A-75VHE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

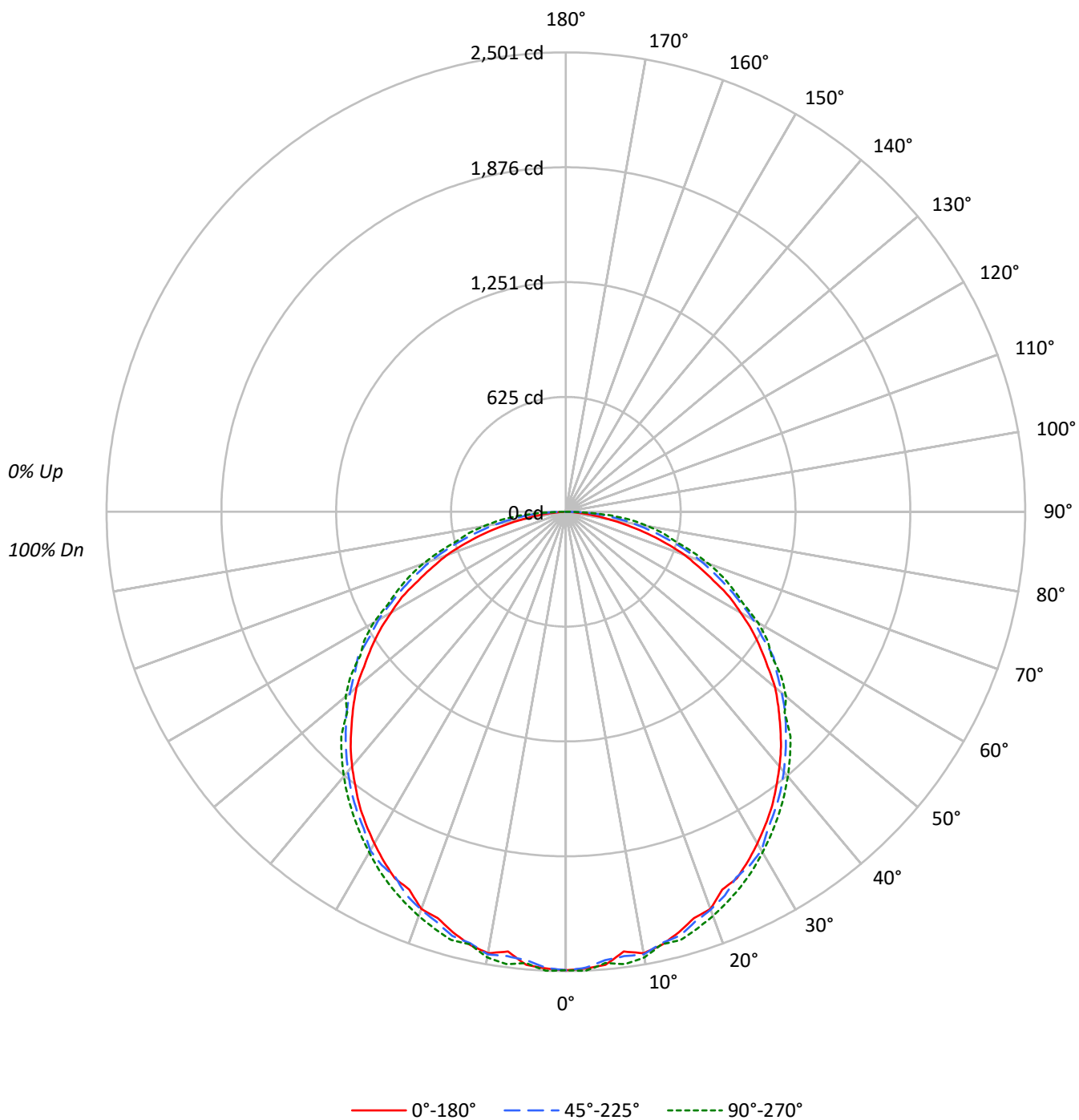
Lumens per Lamp: N/A
Luminaire Lumens: 7451.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	3823	3823	3823
5°	3806	3767	3792
10°	3795	3805	3831
15°	3760	3791	3827
20°	3751	3757	3817
25°	3721	3711	3807
30°	3688	3767	3788
35°	3660	3711	3772
40°	3620	3691	3759
45°	3574	3671	3746
50°	3545	3656	3729
55°	3456	3688	3651
60°	3368	3610	3703
65°	3216	3532	3653
70°	3084	3502	3706
75°	2731	3397	3631
80°	2156	3319	4017
85°	1320	3546	4581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	3.2
10°-20°	673.3	9.0
20°-30°	1025.9	13.8
30°-40°	1248.7	16.8
40°-50°	1309.3	17.6
50°-60°	1212.9	16.3
60°-70°	956.4	12.8
70°-80°	591.7	7.9
80°-90°	197.0	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°	1934.9	26.0
0°-40°	3183.6	42.7
0°-60°	5705.8	76.6
0°-90°	7451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2476	2475	2450	2504	2467	234
15°	2371	2383	2390	2373	2414	669
25°	2202	2214	2196	2257	2253	1012
35°	1957	1976	1985	2022	2017	1223
45°	1650	1680	1695	1714	1729	1275
55°	1294	1333	1381	1394	1367	1157
65°	887	922	975	1011	1008	883
75°	462	498	574	618	614	487
85°	75	128	202	245	261	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2496.0	2496.0	2496.0	2496.0	2496.0
2.5°	2488.9	2504.1	2484.8	2501.0	2501.0
5°	2475.7	2474.7	2450.3	2504.1	2466.6
7.5°	2414.8	2457.4	2440.2	2506.1	2483.8
10°	2440.2	2429.0	2446.3	2490.9	2463.5
12.5°	2414.8	2433.1	2405.7	2383.4	2411.8
15°	2371.2	2383.4	2390.5	2373.2	2413.8
17.5°	2319.5	2365.1	2340.8	2332.7	2379.3
20°	2301.2	2303.3	2305.3	2346.9	2341.8
22.5°	2226.2	2266.8	2261.7	2295.2	2299.2
25°	2201.8	2214.0	2195.8	2256.6	2252.6
27.5°	2146.1	2172.4	2169.4	2189.7	2200.8
30°	2085.2	2111.6	2129.8	2107.5	2142.0
32.5°	2022.3	2067.0	2046.7	2088.3	2081.2
35°	1957.4	1975.7	1984.8	2022.3	2017.3
37.5°	1882.4	1913.8	1918.9	1975.7	1951.3
40°	1810.4	1841.8	1845.9	1879.3	1880.3
42.5°	1734.3	1749.5	1770.8	1809.3	1806.3
45°	1650.1	1680.5	1694.7	1714.0	1729.2
47.5°	1569.0	1601.4	1619.7	1651.1	1615.6
50°	1487.8	1511.2	1534.5	1568.0	1564.9
52.5°	1385.4	1438.1	1449.3	1467.6	1479.7
55°	1294.1	1332.7	1381.3	1393.5	1367.2
57.5°	1201.8	1231.2	1266.7	1304.3	1301.2
60°	1099.4	1134.9	1178.5	1206.9	1208.9
62.5°	1006.1	1030.4	1072.0	1113.6	1092.3
65°	887.4	921.9	974.7	1011.2	1008.1
67.5°	782.0	819.5	873.2	920.9	922.9
70°	688.6	708.9	782.0	818.5	827.6
72.5°	574.0	609.5	674.4	715.0	719.1
75°	461.5	498.0	574.0	617.7	613.6
77.5°	346.9	399.6	473.6	525.4	542.6
80°	244.4	292.1	376.3	427.0	455.4
82.5°	154.2	203.9	286.0	348.9	366.1
85°	75.1	127.8	201.8	245.4	260.7
87.5°	19.3	52.7	93.3	114.6	123.7
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	16.46	18.13	16.83	18.45	18.76	16.89	18.56	17.26	18.88	19.19
	3H	18.26	19.78	18.64	20.10	20.46	18.97	20.48	19.34	20.81	21.17
	4H	18.91	20.34	19.30	20.68	21.06	19.81	21.24	20.21	21.59	21.96
	6H	19.32	20.65	19.73	21.01	21.40	20.60	21.93	21.01	22.29	22.68
	8H	19.42	20.69	19.84	21.08	21.48	20.94	22.21	21.36	22.60	23.00
	12H	19.46	20.68	19.89	21.07	21.49	21.24	22.46	21.67	22.84	23.27
4H	2H	17.20	18.63	17.60	18.98	19.35	17.53	18.97	17.93	19.31	19.69
	3H	19.24	20.44	19.64	20.84	21.24	19.85	21.06	20.26	21.45	21.85
	4H	20.01	21.10	20.44	21.51	21.95	20.85	21.95	21.28	22.36	22.80
	6H	20.54	21.50	20.99	21.94	22.40	21.81	22.77	22.26	23.21	23.66
	8H	20.69	21.59	21.14	22.03	22.49	22.23	23.13	22.69	23.57	24.04
	12H	20.77	21.58	21.25	22.05	22.52	22.61	23.42	23.09	23.90	24.36
8H	4H	20.46	21.36	20.91	21.80	22.26	21.19	22.09	21.65	22.54	23.00
	6H	21.14	21.89	21.63	22.37	22.85	22.31	23.06	22.80	23.55	24.02
	8H	21.35	22.03	21.86	22.54	23.02	22.86	23.53	23.36	24.04	24.52
	12H	21.50	22.10	22.01	22.59	23.15	23.37	23.97	23.88	24.46	25.02
12H	4H	20.54	21.35	21.02	21.83	22.29	21.23	22.04	21.71	22.51	22.98
	6H	21.27	21.95	21.78	22.45	22.94	22.37	23.05	22.88	23.56	24.04
	8H	21.56	22.16	22.07	22.65	23.21	23.00	23.60	23.50	24.09	24.65