

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: P1588879

Luminaire Tested: 24CZSP-A-75VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588879
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

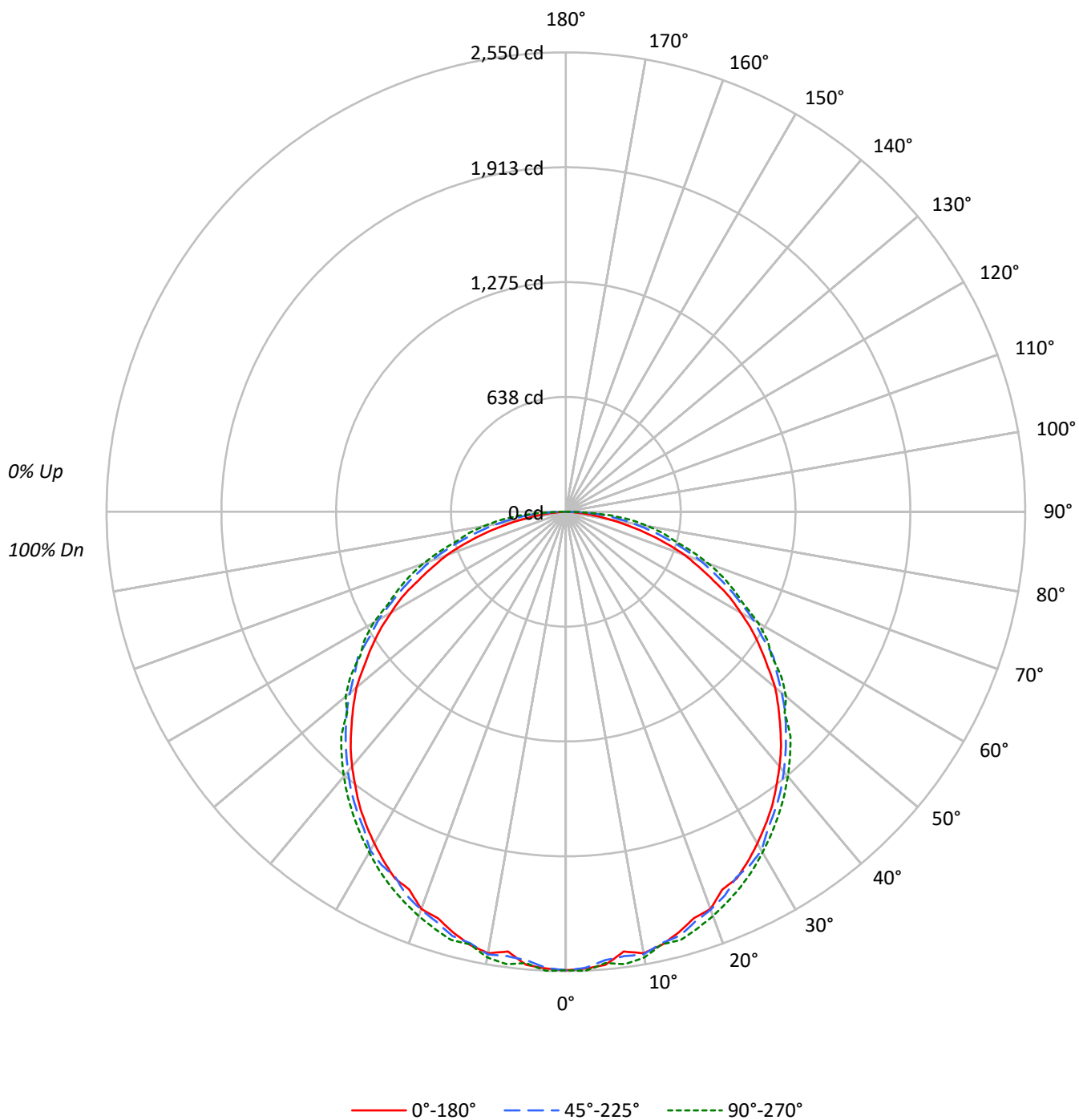
Lumens per Lamp: N/A
Luminaire Lumens: 7597.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3898	3898	3898
5°	3881	3841	3867
10°	3869	3879	3906
15°	3834	3865	3902
20°	3824	3831	3892
25°	3794	3783	3881
30°	3760	3841	3863
35°	3732	3784	3846
40°	3690	3763	3833
45°	3644	3743	3819
50°	3615	3728	3802
55°	3523	3761	3722
60°	3434	3681	3776
65°	3279	3602	3725
70°	3144	3570	3779
75°	2784	3464	3702
80°	2198	3383	4095
85°	1344	3617	4671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4671 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	3.2
10°-20°	686.5	9.0
20°-30°	1046.0	13.8
30°-40°	1273.2	16.8
40°-50°	1335.0	17.6
50°-60°	1236.7	16.3
60°-70°	975.2	12.8
70°-80°	603.3	7.9
80°-90°	200.9	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°	1972.8	26.0
0°-40°	3246.0	42.7
0°-60°	5817.6	76.6
0°-90°	7597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2545	2545	2545	2545	2545	
5°	2524	2523	2498	2553	2515	238
15°	2418	2430	2437	2420	2461	682
25°	2245	2257	2239	2301	2297	1032
35°	1996	2014	2024	2062	2057	1247
45°	1682	1714	1728	1748	1763	1300
55°	1320	1359	1408	1421	1394	1180
65°	905	940	994	1031	1028	900
75°	470	508	585	630	626	497
85°	76	130	206	250	266	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2544.9	2544.9	2544.9	2544.9	2544.9
2.5°	2537.6	2553.1	2533.5	2550.0	2550.0
5°	2524.2	2523.2	2498.3	2553.1	2514.9
7.5°	2462.1	2505.6	2488.0	2555.2	2532.5
10°	2488.0	2476.6	2494.2	2539.7	2511.8
12.5°	2462.1	2480.8	2452.8	2430.1	2459.0
15°	2417.7	2430.1	2437.3	2419.7	2461.1
17.5°	2364.9	2411.5	2386.7	2378.4	2426.0
20°	2346.3	2348.4	2350.5	2392.9	2387.7
22.5°	2269.8	2311.2	2306.0	2340.1	2344.3
25°	2245.0	2257.4	2238.8	2300.8	2296.7
27.5°	2188.1	2215.0	2211.9	2232.6	2244.0
30°	2126.1	2153.0	2171.6	2148.8	2184.0
32.5°	2062.0	2107.5	2086.8	2129.2	2121.9
35°	1995.8	2014.4	2023.7	2062.0	2056.8
37.5°	1919.3	1951.3	1956.5	2014.4	1989.6
40°	1845.8	1877.9	1882.0	1916.2	1917.2
42.5°	1768.3	1783.8	1805.5	1844.8	1841.7
45°	1682.4	1713.5	1727.9	1747.6	1763.1
47.5°	1599.7	1632.8	1651.4	1683.5	1647.3
50°	1517.0	1540.8	1564.6	1598.7	1595.6
52.5°	1412.6	1466.3	1477.7	1496.3	1508.7
55°	1319.5	1358.8	1408.4	1420.8	1393.9
57.5°	1225.4	1255.4	1291.6	1329.8	1326.7
60°	1120.9	1157.1	1201.6	1230.6	1232.6
62.5°	1025.8	1050.6	1093.0	1135.4	1113.7
65°	904.8	940.0	993.8	1031.0	1027.9
67.5°	797.3	835.5	890.3	938.9	941.0
70°	702.1	722.8	797.3	834.5	843.8
72.5°	585.3	621.5	687.7	729.0	733.2
75°	470.5	507.7	585.3	629.8	625.6
77.5°	353.7	407.4	482.9	535.7	553.2
80°	249.2	297.8	383.6	435.3	464.3
82.5°	157.2	207.9	291.6	355.7	373.3
85°	76.5	130.3	205.8	250.2	265.8
87.5°	19.6	53.8	95.1	116.9	126.2
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	16.53	18.20	16.89	18.51	18.83	16.96	18.63	17.32	18.95	19.26
	3H	18.33	19.84	18.70	20.17	20.53	19.03	20.55	19.41	20.87	21.23
	4H	18.97	20.41	19.37	20.75	21.13	19.87	21.31	20.27	21.65	22.03
	6H	19.38	20.71	19.79	21.08	21.47	20.66	21.99	21.07	22.36	22.75
	8H	19.49	20.76	19.91	21.15	21.54	21.01	22.28	21.43	22.67	23.07
	12H	19.53	20.75	19.96	21.13	21.56	21.31	22.53	21.73	22.91	23.34
4H	2H	17.27	18.70	17.67	19.05	19.42	17.60	19.03	18.00	19.38	19.75
	3H	19.30	20.51	19.71	20.91	21.31	19.92	21.12	20.32	21.52	21.92
	4H	20.07	21.17	20.50	21.58	22.02	20.92	22.02	21.35	22.43	22.86
	6H	20.61	21.57	21.06	22.01	22.46	21.87	22.83	22.32	23.27	23.73
	8H	20.75	21.65	21.21	22.10	22.56	22.30	23.20	22.75	23.64	24.10
	12H	20.84	21.65	21.31	22.12	22.59	22.68	23.49	23.15	23.96	24.43
8H	4H	20.52	21.42	20.98	21.87	22.33	21.26	22.16	21.72	22.60	23.07
	6H	21.20	21.96	21.69	22.44	22.92	22.38	23.13	22.87	23.61	24.09
	8H	21.42	22.10	21.93	22.60	23.09	22.92	23.60	23.43	24.10	24.59
	12H	21.57	22.17	22.07	22.66	23.22	23.44	24.04	23.95	24.53	25.09
12H	4H	20.61	21.42	21.09	21.89	22.36	21.29	22.11	21.77	22.58	23.05
	6H	21.34	22.02	21.84	22.52	23.00	22.44	23.12	22.95	23.62	24.11
	8H	21.63	22.23	22.14	22.72	23.28	23.07	23.67	23.57	24.15	24.71