

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: P1588889

Luminaire Tested: 24CZSP-A-75VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588889
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-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

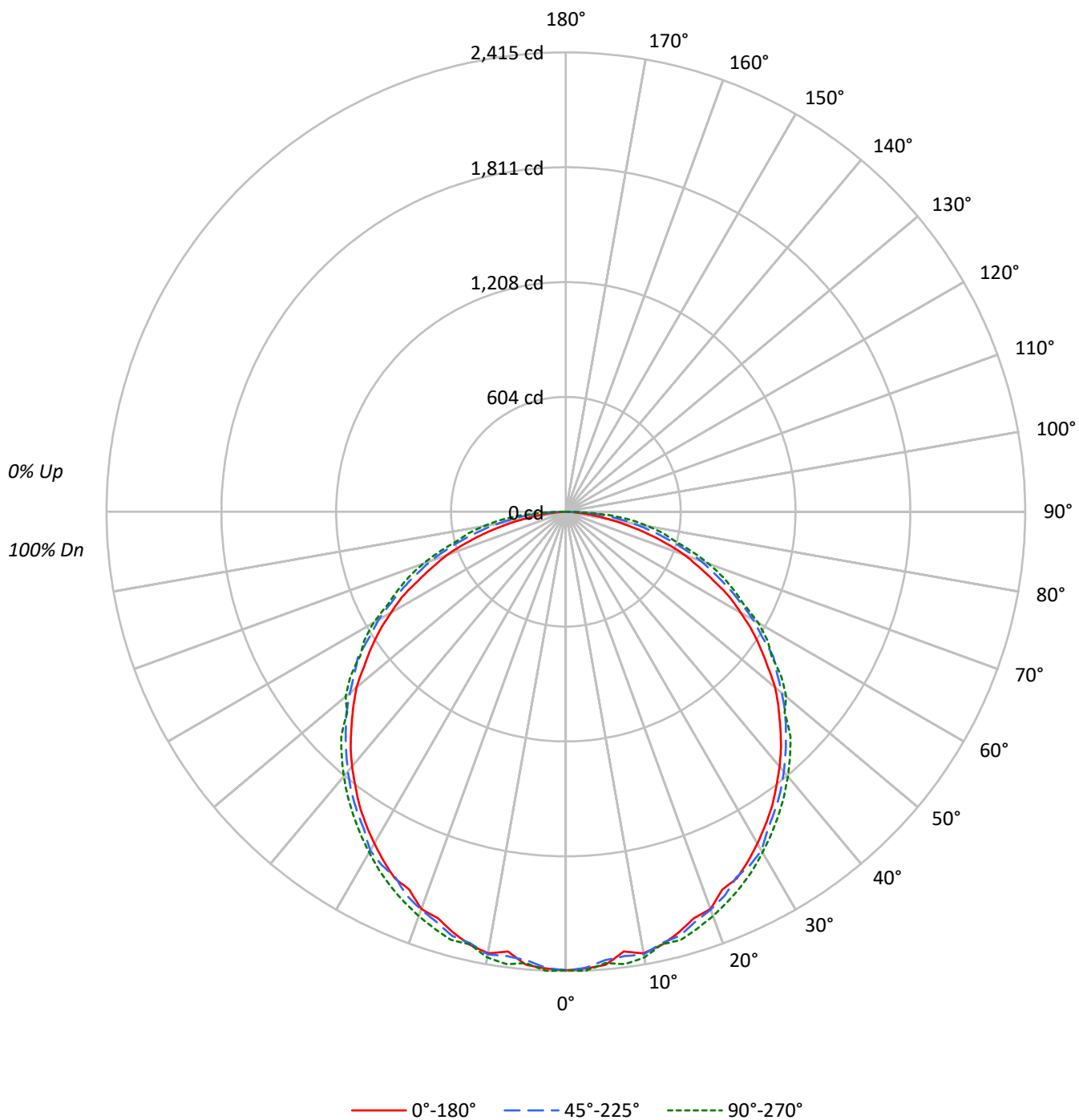
Lumens per Lamp: N/A
Luminaire Lumens: 7195.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	3692	3692	3692
5°	3675	3638	3662
10°	3665	3674	3700
15°	3631	3660	3696
20°	3622	3628	3686
25°	3593	3583	3676
30°	3561	3637	3658
35°	3534	3584	3642
40°	3495	3564	3630
45°	3451	3545	3617
50°	3423	3531	3601
55°	3337	3562	3525
60°	3252	3486	3576
65°	3106	3411	3528
70°	2978	3381	3579
75°	2637	3280	3506
80°	2082	3204	3878
85°	1274	3425	4423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	3.2
10°-20°	650.2	9.0
20°-30°	990.6	13.8
30°-40°	1205.8	16.8
40°-50°	1264.3	17.6
50°-60°	1171.2	16.3
60°-70°	923.6	12.8
70°-80°	571.4	7.9
80°-90°	190.3	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°	1868.4	26.0
0°-40°	3074.2	42.7
0°-60°	5509.8	76.6
0°-90°	7195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2391	2390	2366	2418	2382	226
15°	2290	2302	2308	2292	2331	646
25°	2126	2138	2120	2179	2175	977
35°	1890	1908	1917	1953	1948	1181
45°	1593	1623	1636	1655	1670	1231
55°	1250	1287	1334	1346	1320	1118
65°	857	890	941	976	974	853
75°	446	481	554	596	592	470
85°	72	123	195	237	252	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2410.2	2410.2	2410.2	2410.2	2410.2
2.5°	2403.4	2418.0	2399.4	2415.1	2415.1
5°	2390.6	2389.6	2366.1	2418.0	2381.8
7.5°	2331.9	2373.0	2356.3	2420.0	2398.5
10°	2356.3	2345.6	2362.2	2405.3	2378.9
12.5°	2331.9	2349.5	2323.0	2301.5	2328.9
15°	2289.7	2301.5	2308.4	2291.7	2330.9
17.5°	2239.8	2283.9	2260.4	2252.5	2297.6
20°	2222.2	2224.1	2226.1	2266.2	2261.3
22.5°	2149.7	2188.9	2184.0	2216.3	2220.2
25°	2126.2	2137.9	2120.3	2179.1	2175.2
27.5°	2072.3	2097.8	2094.9	2114.4	2125.2
30°	2013.6	2039.0	2056.7	2035.1	2068.4
32.5°	1952.8	1995.9	1976.4	2016.5	2009.6
35°	1890.2	1907.8	1916.6	1952.8	1947.9
37.5°	1817.7	1848.1	1853.0	1907.8	1884.3
40°	1748.2	1778.5	1782.4	1814.8	1815.7
42.5°	1674.7	1689.4	1710.0	1747.2	1744.2
45°	1593.4	1622.8	1636.5	1655.1	1669.8
47.5°	1515.1	1546.4	1564.0	1594.4	1560.1
50°	1436.7	1459.2	1481.8	1514.1	1511.2
52.5°	1337.8	1388.7	1399.5	1417.1	1428.9
55°	1249.7	1286.9	1333.9	1345.6	1320.2
57.5°	1160.5	1188.9	1223.2	1259.5	1256.5
60°	1061.6	1095.9	1138.0	1165.4	1167.4
62.5°	971.5	995.0	1035.2	1075.3	1054.8
65°	856.9	890.2	941.2	976.4	973.5
67.5°	755.1	791.3	843.2	889.3	891.2
70°	665.0	684.6	755.1	790.3	799.2
72.5°	554.3	588.6	651.3	690.4	694.4
75°	445.6	480.9	554.3	596.4	592.5
77.5°	334.9	385.9	457.4	507.3	524.0
80°	236.0	282.1	363.3	412.3	439.7
82.5°	148.9	196.9	276.2	336.9	353.5
85°	72.5	123.4	194.9	237.0	251.7
87.5°	18.6	50.9	90.1	110.7	119.5
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	16.34	18.01	16.71	18.33	18.64	16.77	18.44	17.14	18.76	19.07
	3H	18.14	19.66	18.52	19.98	20.34	18.84	20.36	19.22	20.69	21.05
	4H	18.78	20.22	19.18	20.56	20.94	19.69	21.12	20.08	21.46	21.84
	6H	19.19	20.52	19.61	20.89	21.28	20.47	21.80	20.89	22.17	22.56
	8H	19.30	20.57	19.72	20.96	21.35	20.82	22.09	21.24	22.48	22.88
	12H	19.34	20.56	19.77	20.94	21.37	21.12	22.34	21.55	22.72	23.15
4H	2H	17.08	18.51	17.48	18.86	19.23	17.41	18.84	17.81	19.19	19.57
	3H	19.11	20.32	19.52	20.72	21.12	19.73	20.93	20.14	21.33	21.73
	4H	19.89	20.98	20.32	21.39	21.83	20.73	21.83	21.16	22.24	22.67
	6H	20.42	21.38	20.87	21.82	22.28	21.68	22.64	22.14	23.08	23.54
	8H	20.57	21.47	21.02	21.91	22.37	22.11	23.01	22.57	23.45	23.91
	12H	20.65	21.46	21.13	21.93	22.40	22.49	23.30	22.97	23.77	24.24
8H	4H	20.34	21.24	20.79	21.68	22.14	21.07	21.97	21.53	22.41	22.88
	6H	21.01	21.77	21.51	22.25	22.73	22.19	22.94	22.68	23.43	23.90
	8H	21.23	21.91	21.74	22.41	22.90	22.73	23.41	23.24	23.91	24.40
	12H	21.38	21.98	21.88	22.47	23.03	23.25	23.85	23.76	24.34	24.90
12H	4H	20.42	21.23	20.90	21.70	22.17	21.11	21.92	21.58	22.39	22.86
	6H	21.15	21.83	21.65	22.33	22.81	22.25	22.93	22.76	23.44	23.92
	8H	21.44	22.04	21.95	22.53	23.09	22.88	23.48	23.38	23.97	24.52