

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: P1588866

Luminaire Tested: 24CZSP-A-75-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588866
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-75-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

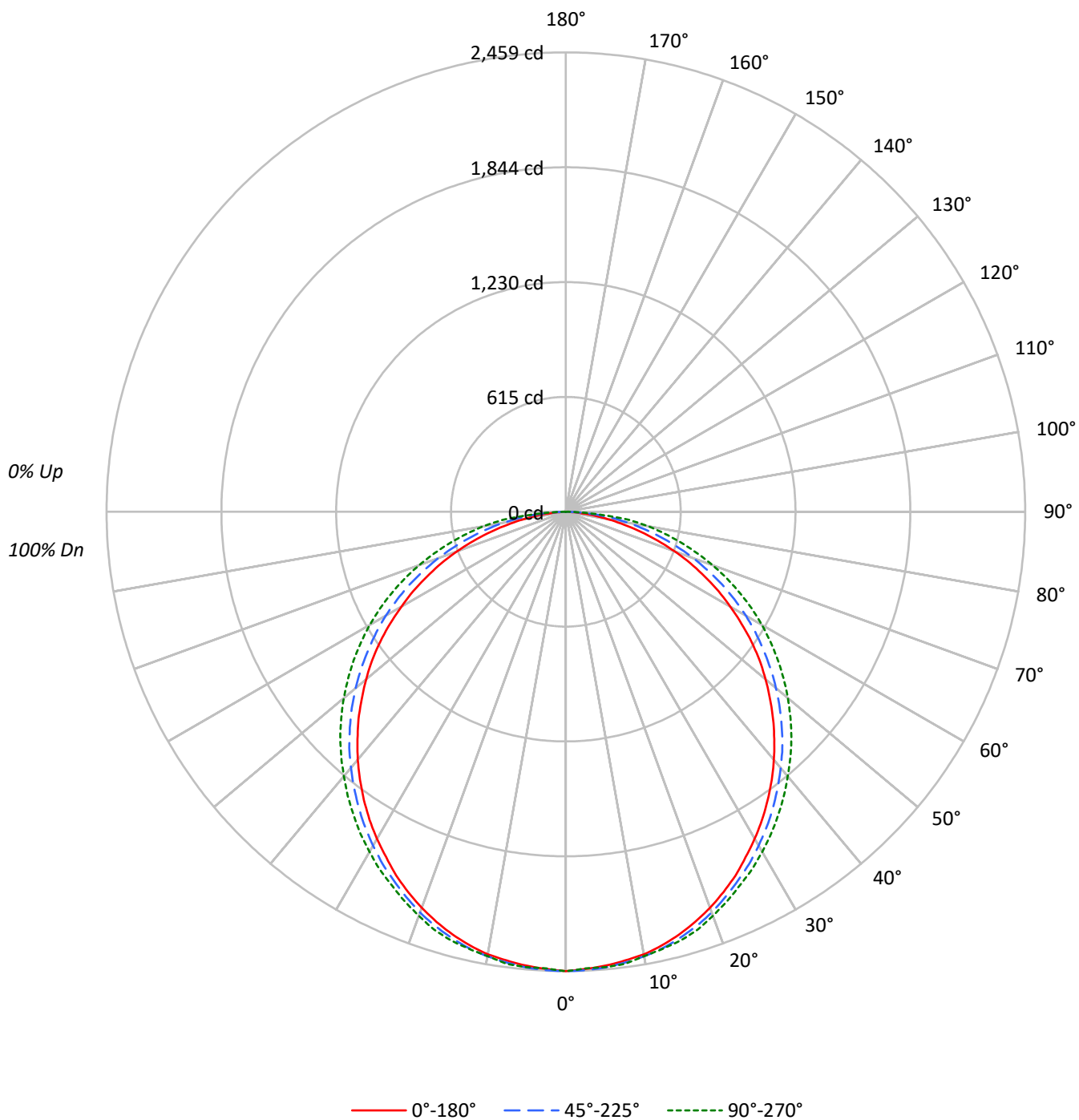
Lumens per Lamp: N/A
Luminaire Lumens: 7180.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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°	3767	3767	3767
5°	3750	3764	3762
10°	3742	3759	3756
15°	3715	3745	3767
20°	3677	3721	3752
25°	3632	3682	3728
30°	3575	3650	3717
35°	3523	3614	3706
40°	3465	3579	3695
45°	3399	3542	3699
50°	3326	3499	3698
55°	3239	3450	3702
60°	3118	3412	3711
65°	2975	3346	3723
70°	2773	3252	3739
75°	2471	3123	3776
80°	2043	2974	3960
85°	1329	2685	3460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	3.2
10°-20°	666.0	9.3
20°-30°	1004.4	14.0
30°-40°	1209.8	16.8
40°-50°	1263.5	17.6
50°-60°	1160.4	16.2
60°-70°	913.9	12.7
70°-80°	560.7	7.8
80°-90°	168.7	2.3
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°	1903.0	26.5
0°-40°	3112.8	43.4
0°-60°	5536.7	77.1
0°-90°	7180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2459	2459	2459	2459	2459	
5°	2439	2442	2448	2456	2447	232
15°	2343	2348	2362	2376	2376	661
25°	2149	2154	2179	2206	2206	989
35°	1884	1894	1933	1972	1982	1179
45°	1569	1586	1635	1692	1708	1210
55°	1213	1235	1292	1364	1386	1083
65°	821	849	923	1000	1027	812
75°	418	451	528	611	638	443
85°	76	104	153	194	197	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2459.3	2459.3	2459.3	2459.3	2459.3
2.5°	2449.9	2454.6	2456.2	2457.8	2446.7
5°	2438.9	2442.0	2448.3	2456.2	2446.7
7.5°	2423.1	2426.3	2434.1	2445.2	2440.4
10°	2405.8	2407.4	2416.8	2424.7	2415.2
12.5°	2377.4	2382.1	2393.2	2399.5	2396.3
15°	2342.8	2347.5	2361.7	2375.8	2375.8
17.5°	2301.8	2308.1	2325.4	2344.3	2345.9
20°	2256.1	2260.8	2282.9	2301.8	2301.8
22.5°	2204.1	2210.4	2232.5	2253.0	2256.1
25°	2149.0	2153.7	2178.9	2205.7	2205.7
27.5°	2084.4	2093.8	2125.3	2152.1	2158.4
30°	2021.4	2029.2	2063.9	2097.0	2101.7
32.5°	1955.2	1964.6	2000.9	2037.1	2045.0
35°	1884.3	1893.7	1933.1	1972.5	1982.0
37.5°	1810.2	1821.3	1862.2	1907.9	1917.4
40°	1733.0	1745.6	1789.8	1838.6	1848.1
42.5°	1651.1	1668.4	1715.7	1766.1	1780.3
45°	1569.2	1586.5	1635.4	1692.1	1707.8
47.5°	1482.5	1503.0	1553.4	1613.3	1630.6
50°	1395.9	1416.4	1468.4	1533.0	1551.9
52.5°	1307.7	1328.1	1381.7	1449.5	1469.9
55°	1213.1	1235.2	1291.9	1364.4	1386.4
57.5°	1115.4	1143.8	1203.7	1277.7	1299.8
60°	1017.8	1046.1	1113.9	1186.3	1211.6
62.5°	921.7	948.4	1017.8	1095.0	1121.7
65°	820.8	849.2	923.2	1000.4	1027.2
67.5°	721.6	749.9	824.0	904.3	932.7
70°	619.2	650.7	726.3	806.7	835.0
72.5°	516.8	549.8	627.0	709.0	735.8
75°	417.5	450.6	527.8	611.3	638.1
77.5°	319.8	356.1	431.7	516.8	542.0
80°	231.6	266.3	337.2	420.7	449.0
82.5°	148.1	178.0	248.9	327.7	348.2
85°	75.6	104.0	152.8	193.8	196.9
87.5°	23.6	33.1	50.4	75.6	77.2
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	16.09	17.75	16.45	18.06	18.38	16.92	18.58	17.28	18.89	19.21
	3H	17.84	19.35	18.22	19.67	20.03	19.03	20.54	19.41	20.87	21.23
	4H	18.46	19.88	18.86	20.23	20.60	19.92	21.34	20.32	21.69	22.07
	6H	18.87	20.19	19.28	20.56	20.95	20.70	22.02	21.11	22.39	22.78
	8H	18.98	20.24	19.40	20.63	21.03	21.02	22.29	21.45	22.67	23.07
	12H	19.03	20.24	19.46	20.62	21.05	21.23	22.44	21.66	22.83	23.25
4H	2H	16.86	18.28	17.26	18.63	19.00	17.50	18.93	17.90	19.27	19.65
	3H	18.83	20.03	19.24	20.43	20.83	19.86	21.06	20.27	21.45	21.85
	4H	19.57	20.66	20.00	21.07	21.51	20.91	22.00	21.34	22.41	22.84
	6H	20.10	21.05	20.55	21.49	21.95	21.86	22.82	22.32	23.26	23.71
	8H	20.25	21.14	20.71	21.58	22.04	22.26	23.15	22.72	23.59	24.06
	12H	20.33	21.13	20.81	21.61	22.08	22.54	23.34	23.02	23.82	24.28
8H	4H	20.03	20.92	20.49	21.36	21.83	21.20	22.09	21.66	22.53	23.00
	6H	20.69	21.44	21.18	21.92	22.40	22.31	23.06	22.80	23.54	24.02
	8H	20.90	21.57	21.41	22.08	22.56	22.82	23.49	23.33	24.00	24.48
	12H	21.04	21.63	21.55	22.12	22.68	23.21	23.80	23.71	24.29	24.85
12H	4H	20.12	20.92	20.60	21.40	21.87	21.22	22.03	21.70	22.50	22.97
	6H	20.82	21.49	21.33	22.00	22.48	22.36	23.03	22.87	23.53	24.02
	8H	21.10	21.69	21.61	22.18	22.74	22.94	23.53	23.44	24.02	24.58