

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: P1588886

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588886
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-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

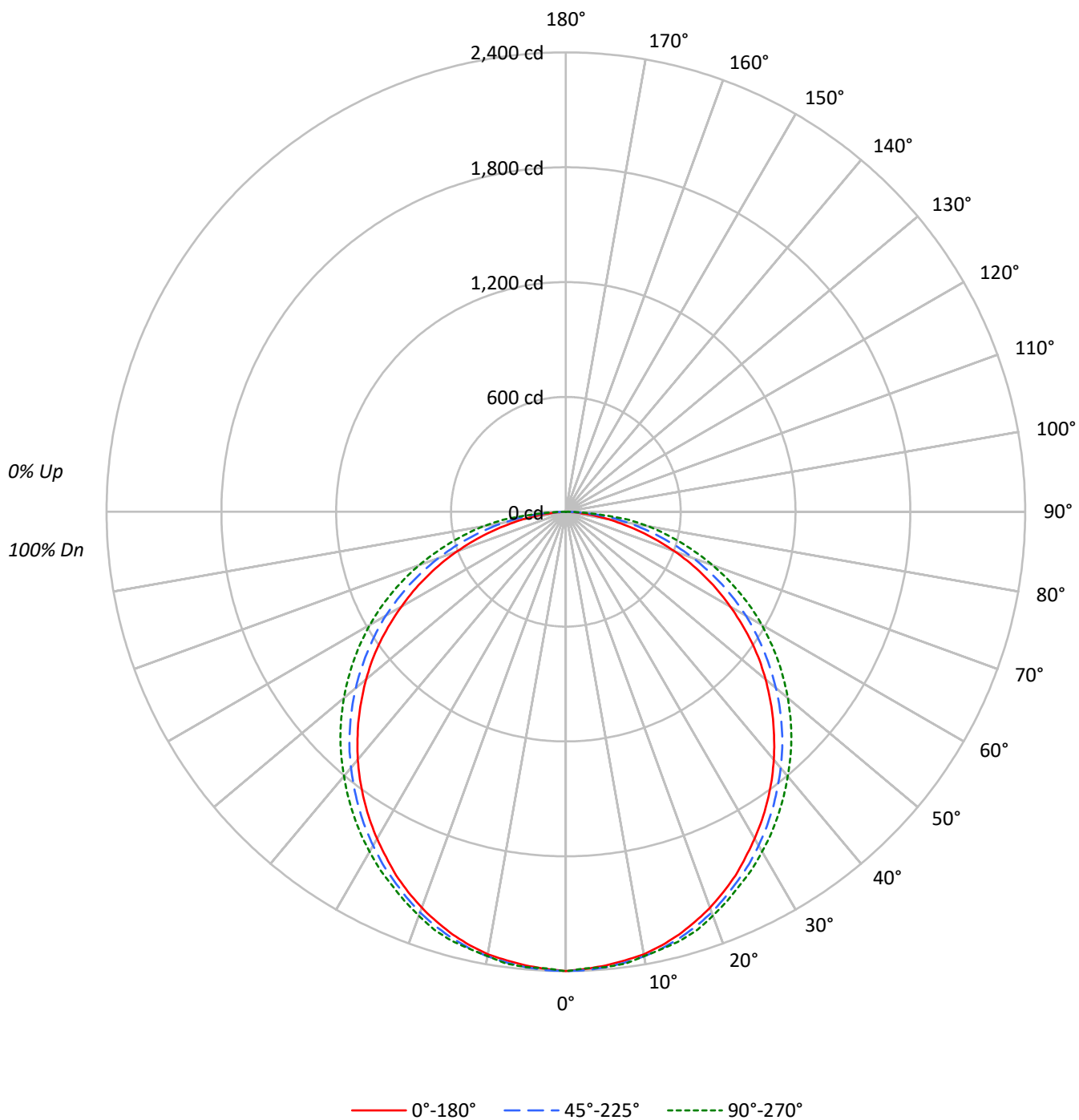
Lumens per Lamp: N/A
Luminaire Lumens: 7006.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3675	3675	3675
5°	3659	3673	3671
10°	3651	3668	3665
15°	3625	3654	3676
20°	3588	3631	3661
25°	3544	3593	3637
30°	3488	3562	3627
35°	3438	3527	3616
40°	3381	3492	3606
45°	3317	3456	3609
50°	3246	3414	3608
55°	3161	3366	3612
60°	3042	3329	3621
65°	2903	3265	3632
70°	2706	3174	3649
75°	2411	3048	3684
80°	1993	2902	3864
85°	1297	2620	3378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	3.2
10°-20°	649.9	9.3
20°-30°	980.1	14.0
30°-40°	1180.5	16.8
40°-50°	1232.9	17.6
50°-60°	1132.2	16.2
60°-70°	891.8	12.7
70°-80°	547.1	7.8
80°-90°	164.6	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°	1856.9	26.5
0°-40°	3037.4	43.4
0°-60°	5402.5	77.1
0°-90°	7006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2380	2383	2389	2397	2387	226
15°	2286	2291	2304	2318	2318	645
25°	2097	2102	2126	2152	2152	965
35°	1839	1848	1886	1925	1934	1150
45°	1531	1548	1596	1651	1666	1181
55°	1184	1205	1261	1331	1353	1057
65°	801	829	901	976	1002	792
75°	407	440	515	596	623	432
85°	74	102	149	189	192	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2399.7	2399.7	2399.7	2399.7	2399.7
2.5°	2390.5	2395.1	2396.7	2398.2	2387.4
5°	2379.8	2382.8	2389.0	2396.7	2387.4
7.5°	2364.4	2367.5	2375.1	2385.9	2381.3
10°	2347.5	2349.0	2358.2	2365.9	2356.7
12.5°	2319.8	2324.4	2335.2	2341.3	2338.2
15°	2286.0	2290.6	2304.4	2318.3	2318.3
17.5°	2246.0	2252.2	2269.1	2287.5	2289.1
20°	2201.4	2206.0	2227.6	2246.0	2246.0
22.5°	2150.7	2156.8	2178.4	2198.4	2201.4
25°	2096.9	2101.5	2126.1	2152.2	2152.2
27.5°	2033.9	2043.1	2073.8	2100.0	2106.1
30°	1972.4	1980.1	2013.9	2046.2	2050.8
32.5°	1907.8	1917.0	1952.4	1987.7	1995.4
35°	1838.6	1847.8	1886.3	1924.7	1933.9
37.5°	1766.4	1777.1	1817.1	1861.7	1870.9
40°	1691.0	1703.3	1746.4	1794.0	1803.3
42.5°	1611.1	1628.0	1674.1	1723.3	1737.2
45°	1531.2	1548.1	1595.7	1651.1	1666.4
47.5°	1446.6	1466.6	1515.8	1574.2	1591.1
50°	1362.1	1382.0	1432.8	1495.8	1514.3
52.5°	1276.0	1296.0	1348.2	1414.3	1434.3
55°	1183.7	1205.3	1260.6	1331.3	1352.8
57.5°	1088.4	1116.1	1174.5	1246.8	1268.3
60°	993.1	1020.8	1086.9	1157.6	1182.2
62.5°	899.3	925.5	993.1	1068.4	1094.6
65°	800.9	828.6	900.9	976.2	1002.3
67.5°	704.1	731.8	804.0	882.4	910.1
70°	604.2	634.9	708.7	787.1	814.8
72.5°	504.2	536.5	611.8	691.8	717.9
75°	407.4	439.7	515.0	596.5	622.6
77.5°	312.1	347.4	421.2	504.2	528.8
80°	226.0	259.8	329.0	410.5	438.1
82.5°	144.5	173.7	242.9	319.8	339.7
85°	73.8	101.5	149.1	189.1	192.2
87.5°	23.1	32.3	49.2	73.8	75.3
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	16.00	17.66	16.37	17.98	18.29	16.83	18.49	17.20	18.81	19.12
	3H	17.76	19.26	18.13	19.59	19.95	18.95	20.45	19.32	20.78	21.14
	4H	18.37	19.80	18.77	20.14	20.52	19.84	21.26	20.23	21.61	21.98
	6H	18.79	20.11	19.20	20.47	20.86	20.62	21.94	21.03	22.30	22.69
	8H	18.89	20.16	19.32	20.54	20.94	20.94	22.20	21.36	22.59	22.99
	12H	18.95	20.16	19.37	20.54	20.97	21.15	22.36	21.58	22.74	23.17
4H	2H	16.77	18.19	17.17	18.54	18.92	17.42	18.84	17.82	19.19	19.56
	3H	18.75	19.95	19.16	20.34	20.74	19.77	20.97	20.18	21.37	21.77
	4H	19.49	20.57	19.92	20.99	21.42	20.83	21.91	21.26	22.32	22.76
	6H	20.02	20.97	20.47	21.41	21.86	21.78	22.73	22.23	23.17	23.62
	8H	20.16	21.05	20.62	21.49	21.96	22.18	23.07	22.63	23.51	23.97
	12H	20.25	21.05	20.72	21.52	21.99	22.45	23.26	22.93	23.73	24.20
8H	4H	19.95	20.84	20.40	21.28	21.74	21.12	22.01	21.57	22.45	22.91
	6H	20.61	21.35	21.10	21.84	22.31	22.23	22.97	22.72	23.46	23.93
	8H	20.82	21.49	21.32	21.99	22.48	22.74	23.41	23.25	23.91	24.40
	12H	20.96	21.55	21.46	22.04	22.60	23.12	23.72	23.63	24.21	24.76
12H	4H	20.04	20.84	20.51	21.31	21.78	21.14	21.94	21.62	22.42	22.89
	6H	20.74	21.41	21.25	21.91	22.40	22.27	22.94	22.78	23.45	23.93
	8H	21.02	21.61	21.52	22.10	22.66	22.85	23.44	23.36	23.93	24.49