

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: P1588887

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588887
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-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

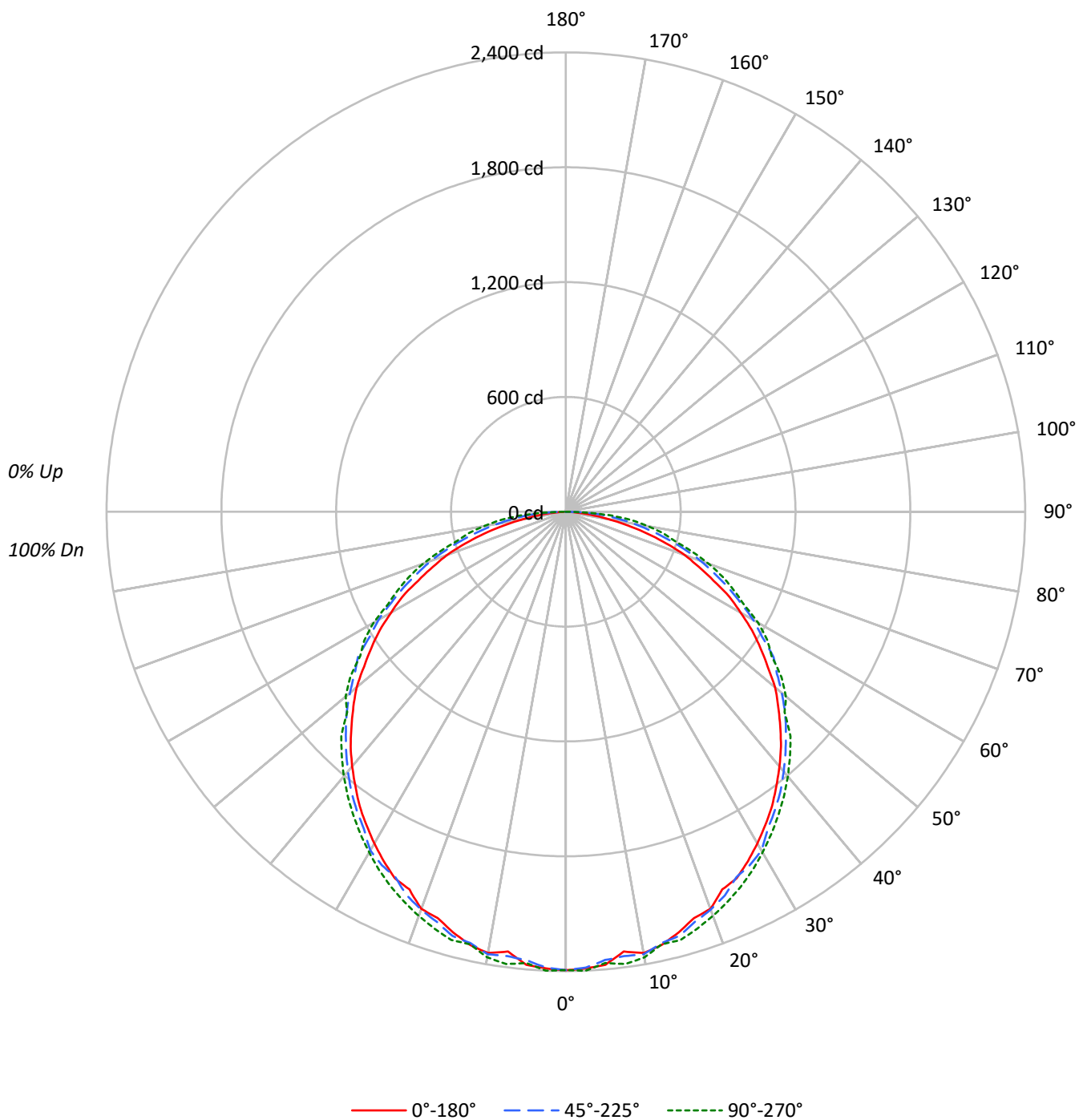
Lumens per Lamp: N/A
Luminaire Lumens: 7149.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588887

CATALOG NUMBER: 24CZSP-A-75VHE-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1588887

CATALOG NUMBER: 24CZSP-A-75VHE-L940

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	51	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3668	3668	3668
5°	3652	3615	3639
10°	3641	3650	3676
15°	3608	3637	3672
20°	3599	3605	3662
25°	3570	3560	3653
30°	3538	3614	3635
35°	3512	3561	3619
40°	3473	3541	3607
45°	3429	3522	3594
50°	3401	3508	3578
55°	3316	3539	3503
60°	3231	3464	3553
65°	3086	3389	3506
70°	2959	3360	3556
75°	2620	3259	3484
80°	2068	3184	3854
85°	1265	3402	4395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4395 cd/sqm

TEST NUMBER: P1588887

CATALOG NUMBER: 24CZSP-A-75VHE-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	3.2
10°-20°	646.0	9.0
20°-30°	984.3	13.8
30°-40°	1198.1	16.8
40°-50°	1256.2	17.6
50°-60°	1163.7	16.3
60°-70°	917.7	12.8
70°-80°	567.7	7.9
80°-90°	189.0	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°	1856.5	26.0
0°-40°	3054.6	42.7
0°-60°	5474.6	76.6
0°-90°	7149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2395	2395	2395	2395	2395	
5°	2375	2374	2351	2403	2367	224
15°	2275	2287	2294	2277	2316	642
25°	2113	2124	2107	2165	2161	971
35°	1878	1896	1904	1940	1936	1174
45°	1583	1612	1626	1644	1659	1223
55°	1242	1279	1325	1337	1312	1111
65°	852	884	935	970	967	847
75°	443	478	551	593	589	468
85°	72	123	194	236	250	97
90°	0	0	0	0	0	

TEST NUMBER: P1588887

CATALOG NUMBER: 24CZSP-A-75VHE-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2394.8	2394.8	2394.8	2394.8	2394.8
2.5°	2388.0	2402.6	2384.1	2399.7	2399.7
5°	2375.3	2374.4	2351.0	2402.6	2366.6
7.5°	2317.0	2357.8	2341.3	2404.5	2383.1
10°	2341.3	2330.6	2347.1	2389.9	2363.7
12.5°	2317.0	2334.5	2308.2	2286.8	2314.0
15°	2275.1	2286.8	2293.6	2277.1	2316.0
17.5°	2225.5	2269.3	2245.9	2238.1	2282.9
20°	2208.0	2209.9	2211.9	2251.8	2246.9
22.5°	2136.0	2174.9	2170.0	2202.1	2206.0
25°	2112.6	2124.3	2106.8	2165.1	2161.3
27.5°	2059.1	2084.4	2081.5	2100.9	2111.6
30°	2000.7	2026.0	2043.5	2022.1	2055.2
32.5°	1940.4	1983.2	1963.7	2003.6	1996.8
35°	1878.1	1895.6	1904.4	1940.4	1935.5
37.5°	1806.1	1836.2	1841.1	1895.6	1872.2
40°	1737.0	1767.1	1771.0	1803.2	1804.1
42.5°	1664.0	1678.6	1699.0	1736.0	1733.1
45°	1583.2	1612.4	1626.0	1644.5	1659.1
47.5°	1505.4	1536.5	1554.0	1584.2	1550.1
50°	1427.5	1449.9	1472.3	1504.4	1501.5
52.5°	1329.3	1379.9	1390.6	1408.1	1419.8
55°	1241.7	1278.7	1325.4	1337.0	1311.7
57.5°	1153.1	1181.3	1215.4	1251.4	1248.5
60°	1054.8	1088.9	1130.7	1158.0	1159.9
62.5°	965.3	988.7	1028.6	1068.5	1048.0
65°	851.5	884.5	935.1	970.2	967.3
67.5°	750.3	786.3	837.8	883.6	885.5
70°	660.7	680.2	750.3	785.3	794.0
72.5°	550.8	584.8	647.1	686.0	689.9
75°	442.8	477.8	550.8	592.6	588.7
77.5°	332.8	383.4	454.4	504.1	520.6
80°	234.5	280.3	361.0	409.7	436.9
82.5°	147.9	195.6	274.4	334.7	351.3
85°	72.0	122.6	193.6	235.5	250.1
87.5°	18.5	50.6	89.5	110.0	118.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588887

CATALOG NUMBER: 24CZSP-A-75VHE-L940

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	16.32	17.99	16.68	18.30	18.62	16.75	18.42	17.11	18.73	19.05
	3H	18.12	19.63	18.49	19.96	20.32	18.82	20.34	19.20	20.66	21.02
	4H	18.76	20.19	19.16	20.54	20.92	19.66	21.10	20.06	21.44	21.82
	6H	19.17	20.50	19.58	20.87	21.26	20.45	21.78	20.86	22.15	22.54
	8H	19.27	20.55	19.70	20.93	21.33	20.80	22.07	21.22	22.46	22.85
	12H	19.32	20.54	19.75	20.92	21.35	21.09	22.31	21.52	22.70	23.12
4H	2H	17.06	18.49	17.45	18.83	19.21	17.39	18.82	17.79	19.17	19.54
	3H	19.09	20.30	19.50	20.69	21.09	19.70	20.91	20.11	21.31	21.71
	4H	19.86	20.96	20.29	21.37	21.81	20.71	21.81	21.14	22.22	22.65
	6H	20.40	21.36	20.85	21.80	22.25	21.66	22.62	22.11	23.06	23.52
	8H	20.54	21.44	21.00	21.88	22.35	22.09	22.99	22.54	23.43	23.89
	12H	20.62	21.44	21.10	21.91	22.38	22.47	23.28	22.94	23.75	24.22
8H	4H	20.31	21.21	20.77	21.65	22.12	21.05	21.95	21.51	22.39	22.86
	6H	20.99	21.75	21.48	22.23	22.70	22.16	22.92	22.66	23.40	23.88
	8H	21.21	21.89	21.72	22.39	22.88	22.71	23.39	23.22	23.89	24.38
	12H	21.36	21.96	21.86	22.45	23.00	23.23	23.83	23.73	24.32	24.88
12H	4H	20.40	21.21	20.87	21.68	22.15	21.08	21.90	21.56	22.37	22.84
	6H	21.13	21.80	21.63	22.31	22.79	22.23	22.91	22.74	23.41	23.90
	8H	21.42	22.02	21.93	22.51	23.07	22.85	23.45	23.36	23.94	24.50