

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: P1588906

Luminaire Tested: 24CZSP-A-80-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588906
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-80-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

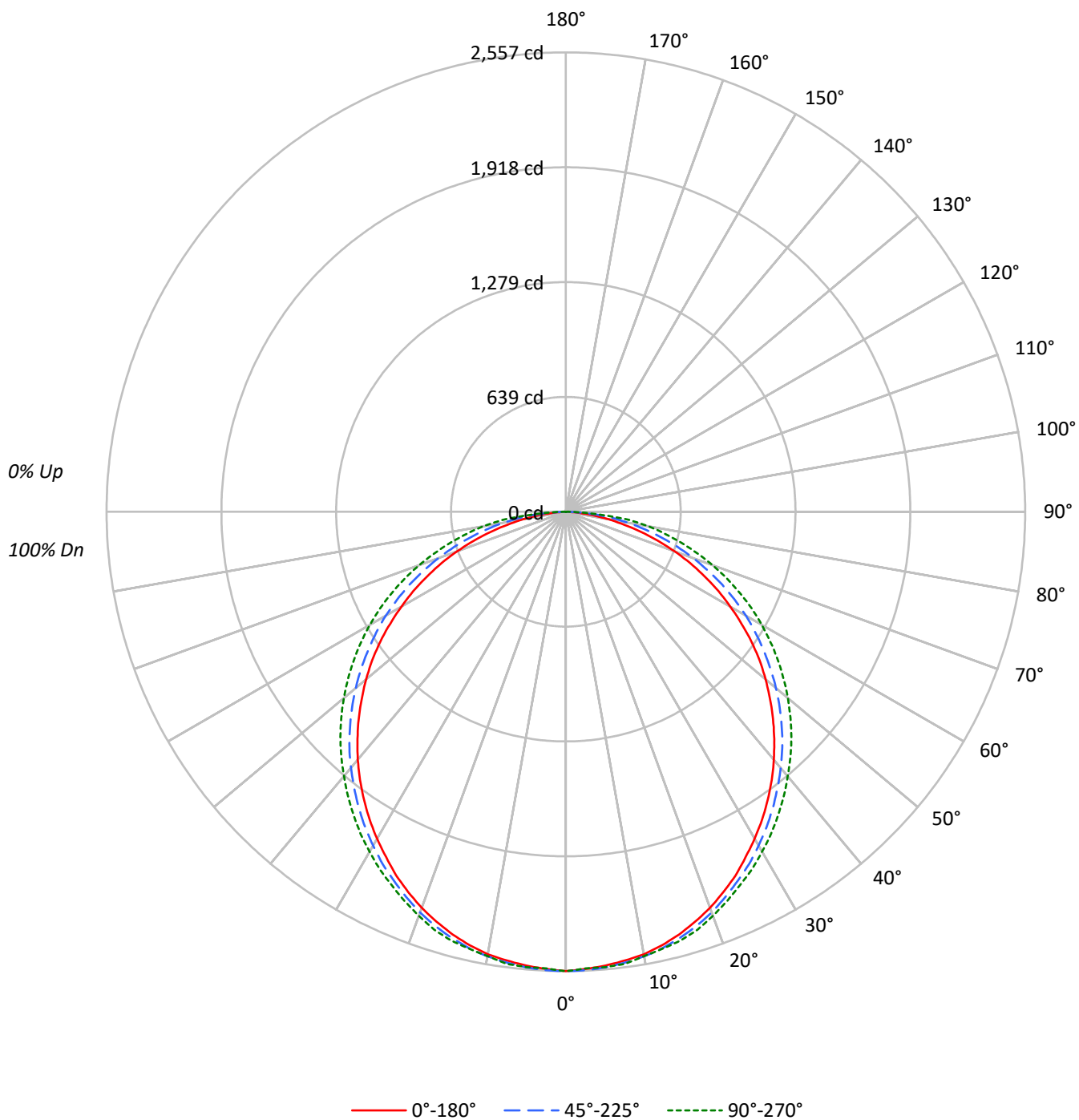
Lumens per Lamp: N/A
Luminaire Lumens: 7465.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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: P1588906

CATALOG NUMBER: 24CZSP-A-80-L940-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588906

CATALOG NUMBER: 24CZSP-A-80-L940-S

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3916	3916	3916
5°	3899	3914	3911
10°	3890	3908	3905
15°	3862	3893	3917
20°	3823	3869	3901
25°	3776	3828	3875
30°	3717	3795	3865
35°	3663	3758	3853
40°	3603	3720	3842
45°	3534	3683	3846
50°	3458	3638	3845
55°	3368	3587	3849
60°	3242	3548	3858
65°	3093	3479	3871
70°	2883	3381	3888
75°	2569	3247	3926
80°	2124	3092	4117
85°	1381	2792	3599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4248 cd/sqm

TEST NUMBER: P1588906

CATALOG NUMBER: 24CZSP-A-80-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	3.2
10°-20°	692.4	9.3
20°-30°	1044.3	14.0
30°-40°	1257.8	16.8
40°-50°	1313.6	17.6
50°-60°	1206.4	16.2
60°-70°	950.2	12.7
70°-80°	582.9	7.8
80°-90°	175.4	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°	1978.6	26.5
0°-40°	3236.4	43.4
0°-60°	5756.4	77.1
0°-90°	7465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2557	2557	2557	2557	2557	
5°	2536	2539	2546	2554	2544	241
15°	2436	2441	2455	2470	2470	687
25°	2234	2239	2265	2293	2293	1028
35°	1959	1969	2010	2051	2061	1225
45°	1632	1650	1700	1759	1776	1258
55°	1261	1284	1343	1418	1442	1126
65°	853	883	960	1040	1068	844
75°	434	468	549	636	663	460
85°	79	108	159	202	205	103
90°	0	0	0	0	0	

TEST NUMBER: P1588906

CATALOG NUMBER: 24CZSP-A-80-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2557.0	2557.0	2557.0	2557.0	2557.0
2.5°	2547.1	2552.0	2553.7	2555.3	2543.9
5°	2535.7	2538.9	2545.5	2553.7	2543.9
7.5°	2519.3	2522.6	2530.8	2542.2	2537.3
10°	2501.3	2502.9	2512.7	2520.9	2511.1
12.5°	2471.8	2476.7	2488.2	2494.7	2491.4
15°	2435.7	2440.7	2455.4	2470.1	2470.1
17.5°	2393.2	2399.7	2417.7	2437.4	2439.0
20°	2345.7	2350.6	2373.5	2393.2	2393.2
22.5°	2291.6	2298.2	2321.1	2342.4	2345.7
25°	2234.3	2239.2	2265.4	2293.2	2293.2
27.5°	2167.1	2176.9	2209.7	2237.5	2244.1
30°	2101.6	2109.8	2145.8	2180.2	2185.1
32.5°	2032.8	2042.6	2080.3	2118.0	2126.2
35°	1959.1	1968.9	2009.9	2050.8	2060.6
37.5°	1882.1	1893.6	1936.1	1983.7	1993.5
40°	1801.8	1814.9	1860.8	1911.6	1921.4
42.5°	1716.7	1734.7	1783.8	1836.2	1851.0
45°	1631.5	1649.5	1700.3	1759.2	1775.6
47.5°	1541.4	1562.7	1615.1	1677.3	1695.4
50°	1451.3	1472.6	1526.6	1593.8	1613.5
52.5°	1359.6	1380.9	1436.6	1507.0	1528.3
55°	1261.3	1284.2	1343.2	1418.5	1441.5
57.5°	1159.7	1189.2	1251.5	1328.4	1351.4
60°	1058.2	1087.7	1158.1	1233.4	1259.6
62.5°	958.2	986.1	1058.2	1138.4	1166.3
65°	853.4	882.9	959.9	1040.1	1068.0
67.5°	750.2	779.7	856.7	940.2	969.7
70°	643.7	676.5	755.1	838.7	868.2
72.5°	537.3	571.7	651.9	737.1	765.0
75°	434.1	468.5	548.7	635.6	663.4
77.5°	332.5	370.2	448.8	537.3	563.5
80°	240.8	276.8	350.5	437.4	466.8
82.5°	154.0	185.1	258.8	340.7	362.0
85°	78.6	108.1	158.9	201.5	204.8
87.5°	24.6	34.4	52.4	78.6	80.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588906

CATALOG NUMBER: 24CZSP-A-80-L940-S

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	16.22	17.88	16.59	18.20	18.51	17.05	18.71	17.42	19.03	19.34
	3H	17.98	19.48	18.35	19.81	20.17	19.17	20.68	19.54	21.00	21.36
	4H	18.60	20.02	18.99	20.36	20.74	20.06	21.48	20.45	21.83	22.20
	6H	19.01	20.33	19.42	20.69	21.08	20.84	22.16	21.25	22.52	22.91
	8H	19.11	20.38	19.54	20.76	21.16	21.16	22.42	21.58	22.81	23.21
	12H	19.17	20.38	19.59	20.76	21.19	21.37	22.58	21.80	22.96	23.39
4H	2H	16.99	18.42	17.39	18.76	19.14	17.64	19.06	18.04	19.41	19.78
	3H	18.97	20.17	19.38	20.56	20.96	19.99	21.19	20.40	21.59	21.99
	4H	19.71	20.79	20.14	21.21	21.64	21.05	22.13	21.48	22.55	22.98
	6H	20.24	21.19	20.69	21.63	22.08	22.00	22.95	22.45	23.39	23.84
	8H	20.38	21.27	20.84	21.72	22.18	22.40	23.29	22.85	23.73	24.19
	12H	20.47	21.27	20.94	21.74	22.21	22.67	23.48	23.15	23.95	24.42
8H	4H	20.17	21.06	20.62	21.50	21.96	21.34	22.23	21.79	22.67	23.13
	6H	20.83	21.57	21.32	22.06	22.53	22.45	23.19	22.94	23.68	24.15
	8H	21.04	21.71	21.55	22.21	22.70	22.96	23.63	23.47	24.13	24.62
	12H	21.18	21.77	21.68	22.26	22.82	23.34	23.94	23.85	24.43	24.98
12H	4H	20.26	21.06	20.73	21.53	22.00	21.36	22.16	21.84	22.64	23.11
	6H	20.96	21.63	21.47	22.13	22.62	22.49	23.16	23.00	23.67	24.15
	8H	21.24	21.83	21.74	22.32	22.88	23.07	23.66	23.58	24.15	24.71