

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: P1588746

Luminaire Tested: 24CZSP-A-57HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588746
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-57HE-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

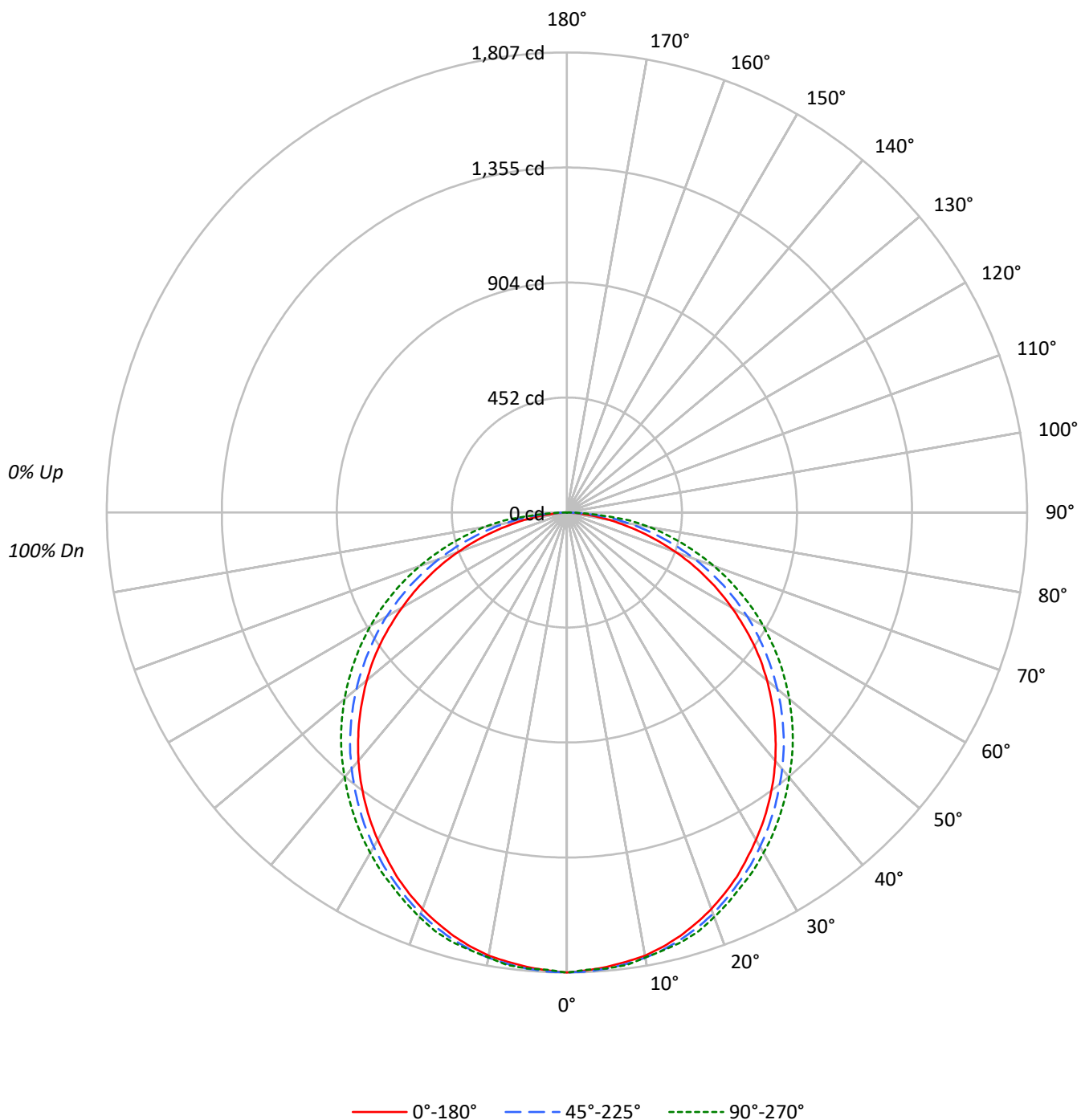
Lumens per Lamp: N/A
Luminaire Lumens: 5275.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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: P1588746

CATALOG NUMBER: 24CZSP-A-57HE-L940-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588746

CATALOG NUMBER: 24CZSP-A-57HE-L940-S

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°	2767	2767	2767
5°	2755	2765	2764
10°	2749	2762	2760
15°	2729	2751	2768
20°	2702	2734	2756
25°	2668	2705	2739
30°	2626	2682	2731
35°	2588	2655	2723
40°	2546	2629	2715
45°	2497	2603	2718
50°	2444	2571	2717
55°	2380	2534	2720
60°	2290	2507	2727
65°	2185	2458	2735
70°	2037	2390	2747
75°	1815	2295	2774
80°	1500	2185	2910
85°	977	1973	2543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3002 cd/sqm

TEST NUMBER: P1588746

CATALOG NUMBER: 24CZSP-A-57HE-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	3.2
10°-20°	489.3	9.3
20°-30°	737.9	14.0
30°-40°	888.8	16.8
40°-50°	928.3	17.6
50°-60°	852.5	16.2
60°-70°	671.4	12.7
70°-80°	411.9	7.8
80°-90°	124.0	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°	1398.1	26.5
0°-40°	2286.9	43.4
0°-60°	4067.7	77.1
0°-90°	5275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1792	1794	1799	1804	1798	170
15°	1721	1725	1735	1746	1746	485
25°	1579	1582	1601	1620	1620	727
35°	1384	1391	1420	1449	1456	866
45°	1153	1166	1202	1243	1255	889
55°	891	908	949	1002	1019	796
65°	603	624	678	735	755	597
75°	307	331	388	449	469	325
85°	56	76	112	142	145	73
90°	0	0	0	0	0	

TEST NUMBER: P1588746

CATALOG NUMBER: 24CZSP-A-57HE-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.8	1806.8	1806.8	1806.8	1806.8
2.5°	1799.9	1803.4	1804.5	1805.7	1797.6
5°	1791.8	1794.1	1798.7	1804.5	1797.6
7.5°	1780.2	1782.5	1788.3	1796.4	1792.9
10°	1767.5	1768.6	1775.6	1781.4	1774.4
12.5°	1746.6	1750.1	1758.2	1762.8	1760.5
15°	1721.2	1724.6	1735.1	1745.5	1745.5
17.5°	1691.1	1695.7	1708.4	1722.3	1723.5
20°	1657.5	1661.0	1677.2	1691.1	1691.1
22.5°	1619.3	1623.9	1640.2	1655.2	1657.5
25°	1578.8	1582.3	1600.8	1620.5	1620.5
27.5°	1531.3	1538.3	1561.4	1581.1	1585.7
30°	1485.0	1490.8	1516.3	1540.6	1544.1
32.5°	1436.4	1443.4	1470.0	1496.6	1502.4
35°	1384.3	1391.3	1420.2	1449.2	1456.1
37.5°	1329.9	1338.0	1368.1	1401.7	1408.7
40°	1273.2	1282.5	1314.9	1350.8	1357.7
42.5°	1213.0	1225.8	1260.5	1297.5	1308.0
45°	1152.9	1165.6	1201.5	1243.1	1254.7
47.5°	1089.2	1104.2	1141.3	1185.3	1198.0
50°	1025.5	1040.6	1078.8	1126.2	1140.1
52.5°	960.7	975.8	1015.1	1064.9	1079.9
55°	891.3	907.5	949.1	1002.4	1018.6
57.5°	819.5	840.3	884.3	938.7	954.9
60°	747.7	768.6	818.3	871.6	890.1
62.5°	677.1	696.8	747.7	804.4	824.1
65°	603.0	623.9	678.3	735.0	754.7
67.5°	530.1	551.0	605.4	664.4	685.2
70°	454.9	478.0	533.6	592.6	613.5
72.5°	379.7	404.0	460.7	520.9	540.5
75°	306.7	331.0	387.8	449.1	468.8
77.5°	235.0	261.6	317.1	379.7	398.2
80°	170.1	195.6	247.7	309.0	329.9
82.5°	108.8	130.8	182.9	240.8	255.8
85°	55.6	76.4	112.3	142.4	144.7
87.5°	17.4	24.3	37.0	55.6	56.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588746

CATALOG NUMBER: 24CZSP-A-57HE-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	15.01	16.68	15.38	16.99	17.31	15.84	17.51	16.21	17.82	18.14
	3H	16.77	18.28	17.15	18.60	18.96	17.96	19.47	18.34	19.79	20.15
	4H	17.39	18.81	17.79	19.16	19.53	18.85	20.27	19.25	20.62	20.99
	6H	17.80	19.12	18.21	19.48	19.87	19.63	20.95	20.04	21.32	21.71
	8H	17.91	19.17	18.33	19.56	19.96	19.95	21.21	20.38	21.60	22.00
	12H	17.96	19.17	18.39	19.55	19.98	20.16	21.37	20.59	21.75	22.18
4H	2H	15.79	17.21	16.18	17.56	17.93	16.43	17.85	16.83	18.20	18.58
	3H	17.76	18.96	18.17	19.36	19.76	18.79	19.99	19.20	20.38	20.78
	4H	18.50	19.59	18.93	20.00	20.43	19.84	20.93	20.27	21.34	21.77
	6H	19.03	19.98	19.48	20.42	20.87	20.79	21.74	21.24	22.18	22.64
	8H	19.18	20.07	19.63	20.51	20.97	21.19	22.08	21.65	22.52	22.99
	12H	19.26	20.06	19.74	20.54	21.01	21.47	22.27	21.95	22.74	23.21
8H	4H	18.96	19.85	19.42	20.29	20.76	20.13	21.02	20.59	21.46	21.93
	6H	19.62	20.36	20.11	20.85	21.33	21.24	21.99	21.73	22.47	22.95
	8H	19.83	20.50	20.34	21.00	21.49	21.75	22.42	22.26	22.93	23.41
	12H	19.97	20.56	20.48	21.05	21.61	22.14	22.73	22.64	23.22	23.78
12H	4H	19.05	19.85	19.53	20.33	20.79	20.15	20.96	20.63	21.43	21.90
	6H	19.75	20.42	20.26	20.93	21.41	21.29	21.96	21.79	22.46	22.95
	8H	20.03	20.62	20.54	21.11	21.67	21.87	22.46	22.37	22.95	23.51