

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: P1588740

Luminaire Tested: 24CZSP-A-57HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588740
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

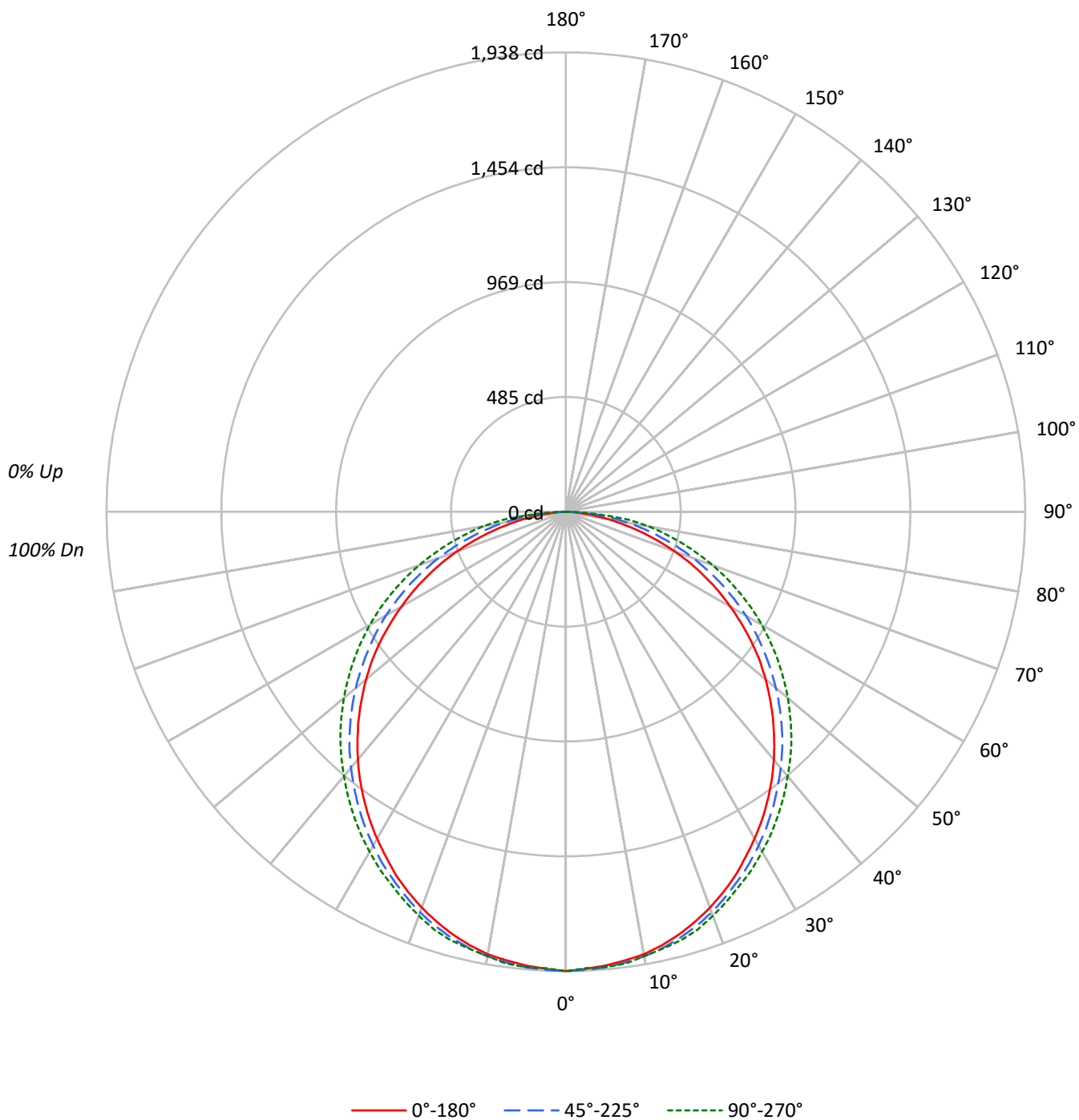
Lumens per Lamp: N/A
Luminaire Lumens: 5657.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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°	2968	2968	2968
5°	2954	2966	2964
10°	2948	2962	2959
15°	2927	2950	2968
20°	2897	2932	2956
25°	2861	2901	2937
30°	2817	2876	2929
35°	2776	2848	2920
40°	2730	2819	2911
45°	2678	2791	2915
50°	2621	2757	2913
55°	2552	2718	2917
60°	2456	2688	2924
65°	2344	2636	2933
70°	2184	2562	2946
75°	1946	2461	2975
80°	1610	2343	3121
85°	1047	2116	2727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3219 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	3.2
10°-20°	524.7	9.3
20°-30°	791.4	14.0
30°-40°	953.2	16.8
40°-50°	995.5	17.6
50°-60°	914.2	16.2
60°-70°	720.1	12.7
70°-80°	441.7	7.8
80°-90°	132.9	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°	1499.4	26.5
0°-40°	2452.5	43.4
0°-60°	4362.2	77.1
0°-90°	5657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1922	1924	1929	1935	1928	183
15°	1846	1850	1861	1872	1872	521
25°	1693	1697	1717	1738	1738	779
35°	1485	1492	1523	1554	1562	929
45°	1236	1250	1288	1333	1346	953
55°	956	973	1018	1075	1092	853
65°	647	669	727	788	809	640
75°	329	355	416	482	503	349
85°	60	82	120	153	155	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.7	1937.7	1937.7	1937.7	1937.7
2.5°	1930.2	1933.9	1935.2	1936.4	1927.7
5°	1921.5	1924.0	1929.0	1935.2	1927.7
7.5°	1909.1	1911.6	1917.8	1926.5	1922.8
10°	1895.5	1896.7	1904.2	1910.4	1902.9
12.5°	1873.1	1876.8	1885.5	1890.5	1888.0
15°	1845.8	1849.5	1860.7	1871.9	1871.9
17.5°	1813.5	1818.5	1832.2	1847.1	1848.3
20°	1777.5	1781.3	1798.6	1813.5	1813.5
22.5°	1736.6	1741.5	1758.9	1775.1	1777.5
25°	1693.1	1696.9	1716.7	1737.8	1737.8
27.5°	1642.2	1649.7	1674.5	1695.6	1700.6
30°	1592.6	1598.8	1626.1	1652.2	1655.9
32.5°	1540.5	1547.9	1576.5	1605.0	1611.2
35°	1484.6	1492.0	1523.1	1554.1	1561.6
37.5°	1426.3	1434.9	1467.2	1503.2	1510.7
40°	1365.4	1375.4	1410.1	1448.6	1456.0
42.5°	1300.9	1314.5	1351.8	1391.5	1402.7
45°	1236.3	1250.0	1288.5	1333.2	1345.6
47.5°	1168.1	1184.2	1223.9	1271.1	1284.7
50°	1099.8	1115.9	1156.9	1207.8	1222.7
52.5°	1030.3	1046.4	1088.6	1142.0	1158.1
55°	955.8	973.2	1017.9	1075.0	1092.3
57.5°	878.8	901.2	948.4	1006.7	1024.1
60°	801.9	824.2	877.6	934.7	954.6
62.5°	726.2	747.3	801.9	862.7	883.8
65°	646.7	669.1	727.4	788.2	809.3
67.5°	568.5	590.9	649.2	712.5	734.9
70°	487.8	512.7	572.2	635.5	657.9
72.5°	407.1	433.2	494.0	558.6	579.7
75°	328.9	355.0	415.8	481.6	502.7
77.5°	252.0	280.5	340.1	407.1	427.0
80°	182.5	209.8	265.6	331.4	353.8
82.5°	116.7	140.3	196.1	258.2	274.3
85°	59.6	81.9	120.4	152.7	155.2
87.5°	18.6	26.1	39.7	59.6	60.8
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	15.26	16.92	15.62	17.23	17.55	16.09	17.75	16.45	18.06	18.38
	3H	17.01	18.52	17.39	18.85	19.21	18.20	19.71	18.58	20.04	20.40
	4H	17.63	19.05	18.03	19.40	19.78	19.09	20.52	19.49	20.86	21.24
	6H	18.04	19.36	18.45	19.73	20.12	19.87	21.19	20.28	21.56	21.95
	8H	18.15	19.41	18.57	19.80	20.20	20.19	21.46	20.62	21.85	22.24
	12H	18.20	19.41	18.63	19.79	20.22	20.41	21.62	20.83	22.00	22.43
4H	2H	16.03	17.45	16.43	17.80	18.17	16.68	18.10	17.07	18.45	18.82
	3H	18.01	19.20	18.42	19.60	20.00	19.03	20.23	19.44	20.63	21.02
	4H	18.74	19.83	19.17	20.24	20.68	20.08	21.17	20.51	21.58	22.02
	6H	19.27	20.22	19.72	20.66	21.12	21.04	21.99	21.49	22.43	22.88
	8H	19.42	20.31	19.88	20.75	21.22	21.43	22.32	21.89	22.77	23.23
	12H	19.50	20.31	19.98	20.78	21.25	21.71	22.51	22.19	22.99	23.46
8H	4H	19.20	20.09	19.66	20.54	21.00	20.37	21.26	20.83	21.71	22.17
	6H	19.86	20.61	20.36	21.09	21.57	21.48	22.23	21.98	22.71	23.19
	8H	20.07	20.74	20.58	21.25	21.73	22.00	22.66	22.50	23.17	23.65
	12H	20.21	20.81	20.72	21.29	21.85	22.38	22.97	22.89	23.46	24.02
12H	4H	19.29	20.10	19.77	20.57	21.04	20.40	21.20	20.87	21.67	22.14
	6H	20.00	20.67	20.50	21.17	21.65	21.53	22.20	22.04	22.70	23.19
	8H	20.27	20.87	20.78	21.36	21.91	22.11	22.70	22.61	23.19	23.75