

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: P1588731

Luminaire Tested: 24CZSP-A-57-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

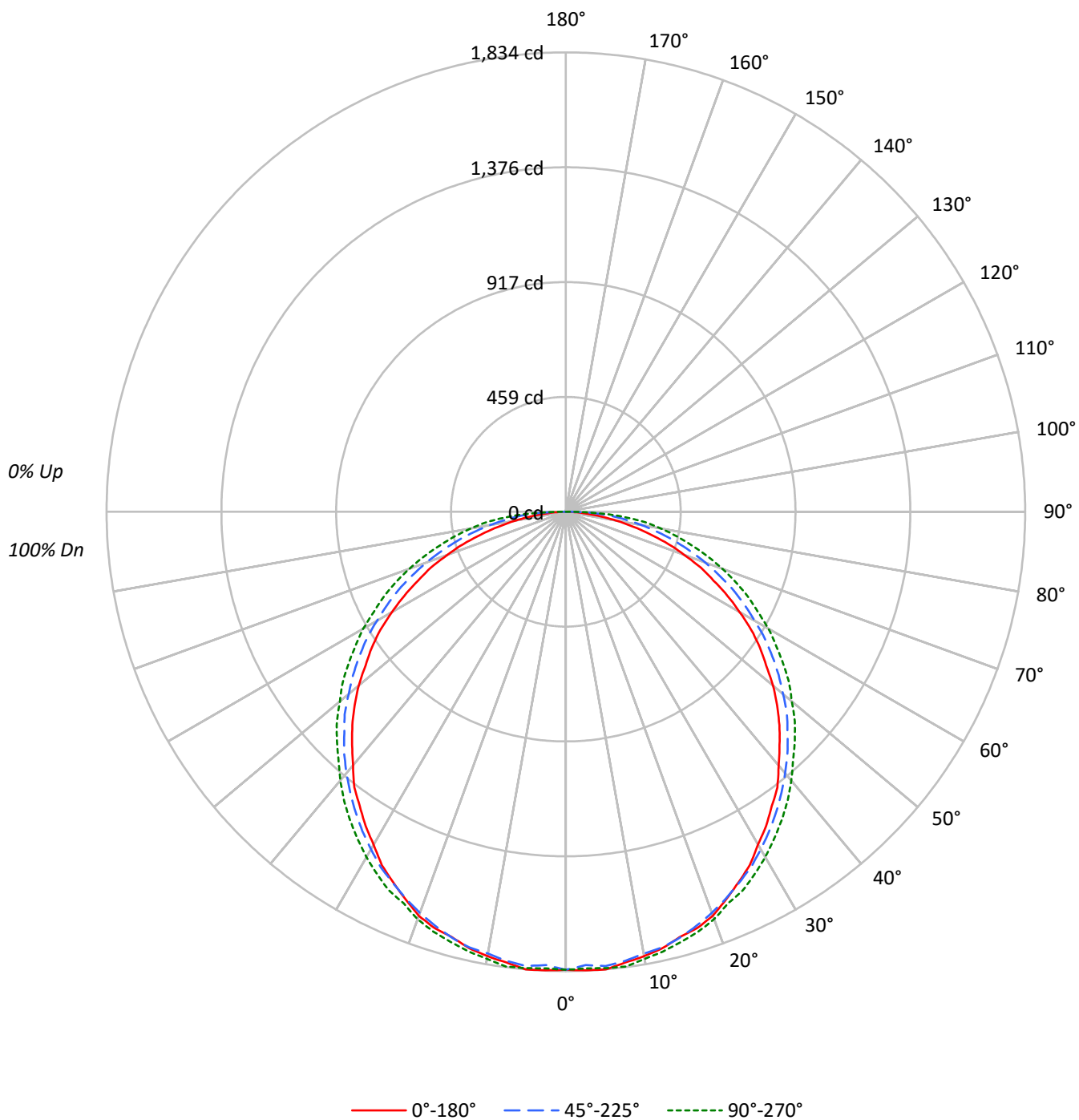
Lumens per Lamp: N/A
Luminaire Lumens: 5581.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2801	2801	2801
5°	2819	2799	2811
10°	2802	2785	2819
15°	2787	2791	2819
20°	2797	2778	2821
25°	2758	2763	2821
30°	2714	2752	2815
35°	2682	2737	2809
40°	2643	2723	2801
45°	2611	2710	2800
50°	2573	2698	2806
55°	2527	2688	2830
60°	2457	2670	2862
65°	2359	2669	2907
70°	2251	2652	2975
75°	2072	2658	3085
80°	1815	2711	3395
85°	1387	3125	4063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4505 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	3.1
10°-20°	499.0	8.9
20°-30°	758.1	13.6
30°-40°	918.3	16.5
40°-50°	966.1	17.3
50°-60°	898.3	16.1
60°-70°	723.3	13.0
70°-80°	468.5	8.4
80°-90°	175.7	3.1
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°	1430.7	25.6
0°-40°	2349.1	42.1
0°-60°	4213.5	75.5
0°-90°	5581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1834	1831	1820	1831	1828	174
15°	1758	1764	1760	1782	1778	498
25°	1632	1631	1635	1663	1669	752
35°	1434	1445	1464	1489	1502	899
45°	1206	1222	1251	1278	1292	929
55°	946	970	1006	1047	1060	844
65°	651	680	736	781	802	647
75°	350	385	449	501	521	372
85°	79	116	178	222	231	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.5	1828.5	1828.5	1828.5	1828.5
2.5°	1832.5	1832.5	1811.1	1833.8	1824.5
5°	1833.8	1831.1	1820.4	1831.1	1828.5
7.5°	1815.1	1817.8	1808.4	1821.8	1831.1
10°	1801.7	1804.4	1791.0	1812.4	1812.4
12.5°	1784.4	1787.0	1781.7	1801.7	1797.7
15°	1757.6	1764.3	1760.3	1781.7	1777.7
17.5°	1742.9	1737.6	1733.6	1749.6	1757.6
20°	1716.2	1704.2	1704.2	1725.5	1730.9
22.5°	1673.4	1669.4	1670.7	1697.5	1692.1
25°	1632.0	1630.6	1634.7	1662.7	1669.4
27.5°	1590.5	1587.9	1599.9	1626.6	1632.0
30°	1534.4	1539.8	1555.8	1585.2	1591.9
32.5°	1487.6	1497.0	1511.7	1539.8	1547.8
35°	1434.2	1444.9	1463.6	1489.0	1502.3
37.5°	1387.4	1394.1	1414.1	1438.2	1454.2
40°	1321.9	1339.3	1362.0	1396.7	1400.8
42.5°	1263.1	1280.5	1309.9	1347.3	1343.3
45°	1205.6	1221.6	1251.1	1277.8	1292.5
47.5°	1144.1	1158.8	1197.6	1229.7	1240.4
50°	1080.0	1098.7	1132.1	1165.5	1177.5
52.5°	1007.8	1027.8	1070.6	1106.7	1124.1
55°	946.3	970.4	1006.5	1046.6	1059.9
57.5°	878.1	898.2	942.3	982.4	995.8
60°	802.0	826.0	871.5	914.2	934.3
62.5°	728.4	755.2	803.3	847.4	863.4
65°	650.9	680.3	736.5	780.6	802.0
67.5°	584.1	608.2	663.0	712.4	735.1
70°	502.6	534.6	592.1	646.9	664.3
72.5°	430.4	458.5	518.6	573.4	594.8
75°	350.2	384.9	449.1	501.2	521.3
77.5°	276.7	312.8	376.9	431.7	454.4
80°	205.8	240.6	307.4	363.6	384.9
82.5°	139.0	173.8	240.6	295.4	319.4
85°	78.9	116.3	177.8	221.9	231.2
87.5°	34.8	66.8	100.2	120.3	128.3
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	15.26	16.94	15.63	17.26	17.57	15.94	17.62	16.30	17.93	18.25
	3H	17.12	18.64	17.49	18.97	19.33	18.15	19.68	18.53	20.01	20.37
	4H	17.80	19.25	18.20	19.59	19.97	19.12	20.56	19.52	20.91	21.28
	6H	18.29	19.64	18.70	20.00	20.39	20.01	21.35	20.42	21.72	22.11
	8H	18.44	19.73	18.87	20.12	20.51	20.41	21.70	20.84	22.09	22.48
	12H	18.53	19.76	18.96	20.15	20.57	20.77	22.01	21.20	22.39	22.81
4H	2H	16.06	17.50	16.45	17.85	18.22	16.58	18.02	16.97	18.37	18.74
	3H	18.14	19.36	18.55	19.76	20.16	19.04	20.26	19.44	20.65	21.05
	4H	18.96	20.07	19.39	20.48	20.92	20.16	21.27	20.59	21.69	22.12
	6H	19.59	20.56	20.04	21.00	21.46	21.23	22.21	21.69	22.65	23.10
	8H	19.79	20.70	20.24	21.14	21.61	21.72	22.64	22.18	23.08	23.54
	12H	19.92	20.75	20.40	21.22	21.69	22.18	23.00	22.65	23.48	23.94
8H	4H	19.47	20.39	19.93	20.83	21.29	20.51	21.42	20.96	21.86	22.33
	6H	20.26	21.02	20.75	21.51	21.98	21.76	22.52	22.25	23.01	23.48
	8H	20.54	21.23	21.05	21.73	22.22	22.38	23.07	22.89	23.57	24.06
	12H	20.76	21.37	21.26	21.86	22.42	22.99	23.60	23.49	24.09	24.65
12H	4H	19.58	20.41	20.06	20.88	21.35	20.54	21.37	21.02	21.84	22.31
	6H	20.42	21.12	20.93	21.62	22.10	21.83	22.52	22.34	23.03	23.51
	8H	20.79	21.41	21.30	21.89	22.45	22.54	23.15	23.04	23.64	24.19