

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: P1588733

Luminaire Tested: 24CZSP-A-57HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57HE-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

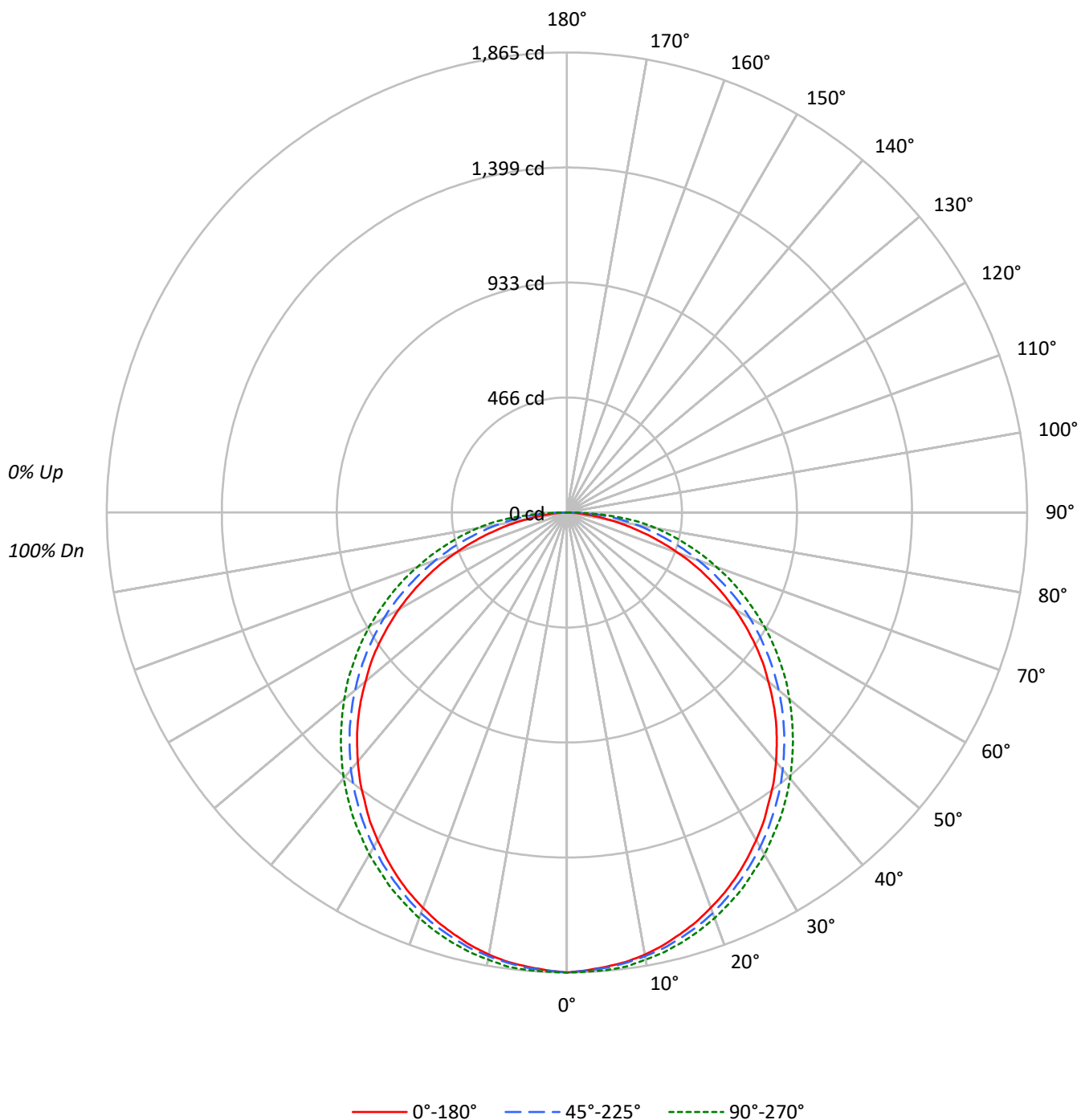
Lumens per Lamp: N/A
Luminaire Lumens: 5532.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2856	2856	2856
5°	2841	2848	2862
10°	2831	2841	2862
15°	2806	2831	2860
20°	2780	2817	2852
25°	2750	2792	2844
30°	2713	2770	2832
35°	2671	2745	2823
40°	2636	2721	2813
45°	2597	2696	2806
50°	2539	2671	2805
55°	2486	2645	2813
60°	2411	2622	2833
65°	2308	2580	2852
70°	2160	2537	2887
75°	1921	2501	2981
80°	1580	2512	3241
85°	1075	2798	3578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	3.2
10°-20°	505.3	9.1
20°-30°	764.1	13.8
30°-40°	922.1	16.7
40°-50°	964.1	17.4
50°-60°	889.5	16.1
60°-70°	707.3	12.8
70°-80°	446.4	8.1
80°-90°	156.5	2.8
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°	1445.9	26.1
0°-40°	2368.0	42.8
0°-60°	4221.7	76.3
0°-90°	5532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1865	1865	1865	1865	1865	
5°	1848	1862	1853	1857	1862	176
15°	1770	1790	1785	1799	1804	499
25°	1628	1652	1652	1674	1683	750
35°	1428	1459	1468	1497	1510	895
45°	1199	1225	1245	1282	1295	923
55°	931	958	991	1038	1053	831
65°	637	666	712	772	787	629
75°	325	361	423	485	504	344
85°	61	101	159	198	204	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1864.9	1864.9	1864.9	1864.9	1864.9
2.5°	1857.2	1869.4	1858.7	1864.9	1863.3
5°	1848.0	1861.8	1852.6	1857.2	1861.8
7.5°	1837.3	1852.6	1841.9	1849.5	1855.7
10°	1820.5	1835.8	1826.6	1835.8	1840.4
12.5°	1797.5	1815.9	1809.7	1820.5	1825.0
15°	1769.9	1789.8	1785.2	1799.0	1803.6
17.5°	1740.8	1762.3	1759.2	1774.5	1779.1
20°	1705.6	1730.1	1728.6	1743.9	1750.0
22.5°	1668.9	1693.4	1691.8	1708.7	1716.3
25°	1627.5	1652.0	1652.0	1673.5	1682.7
27.5°	1581.6	1609.2	1610.7	1632.1	1639.8
30°	1534.1	1561.7	1566.3	1589.3	1601.5
32.5°	1485.1	1511.2	1518.8	1544.9	1554.0
35°	1428.5	1459.1	1468.3	1497.4	1509.6
37.5°	1376.4	1404.0	1416.2	1446.9	1459.1
40°	1318.3	1347.4	1361.1	1394.8	1407.1
42.5°	1258.5	1287.6	1302.9	1339.7	1351.9
45°	1198.8	1224.9	1244.8	1281.5	1295.3
47.5°	1133.0	1162.1	1183.5	1223.3	1237.1
50°	1065.6	1096.3	1120.8	1163.6	1177.4
52.5°	1001.3	1028.9	1056.4	1103.9	1119.2
55°	930.9	958.5	990.6	1038.1	1053.4
57.5°	858.9	886.5	923.2	973.8	990.6
60°	787.0	814.5	855.9	907.9	924.8
62.5°	712.0	739.5	785.4	839.0	854.3
65°	636.9	666.0	712.0	771.7	787.0
67.5°	560.4	589.5	638.5	701.2	718.1
70°	482.3	514.4	566.5	629.3	644.6
72.5°	401.1	437.9	496.1	557.3	575.7
75°	324.6	361.3	422.6	485.4	503.7
77.5°	249.6	290.9	352.1	418.0	437.9
80°	179.1	220.5	284.8	349.1	367.5
82.5°	114.8	157.7	222.0	283.2	298.6
85°	61.2	101.1	159.2	197.5	203.6
87.5°	19.9	52.1	72.0	94.9	96.5
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	15.20	16.87	15.57	17.19	17.50	15.92	17.60	16.29	17.91	18.22
	3H	16.99	18.51	17.37	18.83	19.19	18.09	19.61	18.47	19.93	20.29
	4H	17.62	19.05	18.02	19.40	19.78	19.02	20.46	19.42	20.80	21.18
	6H	18.04	19.38	18.45	19.74	20.13	19.88	21.22	20.29	21.58	21.97
	8H	18.16	19.43	18.58	19.82	20.22	20.26	21.53	20.68	21.92	22.32
	12H	18.21	19.44	18.64	19.82	20.25	20.57	21.79	21.00	22.17	22.60
4H	2H	15.97	17.40	16.37	17.75	18.12	16.53	17.96	16.93	18.31	18.68
	3H	17.99	19.20	18.40	19.60	19.99	18.94	20.15	19.35	20.55	20.95
	4H	18.75	19.85	19.18	20.26	20.70	20.04	21.14	20.47	21.55	21.99
	6H	19.31	20.27	19.76	20.71	21.16	21.08	22.05	21.54	22.49	22.94
	8H	19.47	20.37	19.92	20.81	21.27	21.55	22.45	22.01	22.89	23.36
	12H	19.56	20.38	20.04	20.85	21.32	21.95	22.76	22.42	23.23	23.70
8H	4H	19.24	20.14	19.70	20.59	21.05	20.36	21.26	20.82	21.71	22.17
	6H	19.95	20.71	20.44	21.19	21.66	21.58	22.33	22.07	22.82	23.29
	8H	20.19	20.87	20.70	21.37	21.86	22.18	22.86	22.68	23.36	23.84
	12H	20.36	20.97	20.87	21.45	22.01	22.72	23.32	23.22	23.81	24.37
12H	4H	19.34	20.16	19.82	20.63	21.10	20.39	21.21	20.87	21.68	22.15
	6H	20.11	20.79	20.62	21.30	21.78	21.64	22.32	22.15	22.83	23.31
	8H	20.43	21.04	20.94	21.53	22.08	22.32	22.92	22.82	23.41	23.97