

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: P1588714

Luminaire Tested: 24CZSP-A-57-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588714
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-57-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

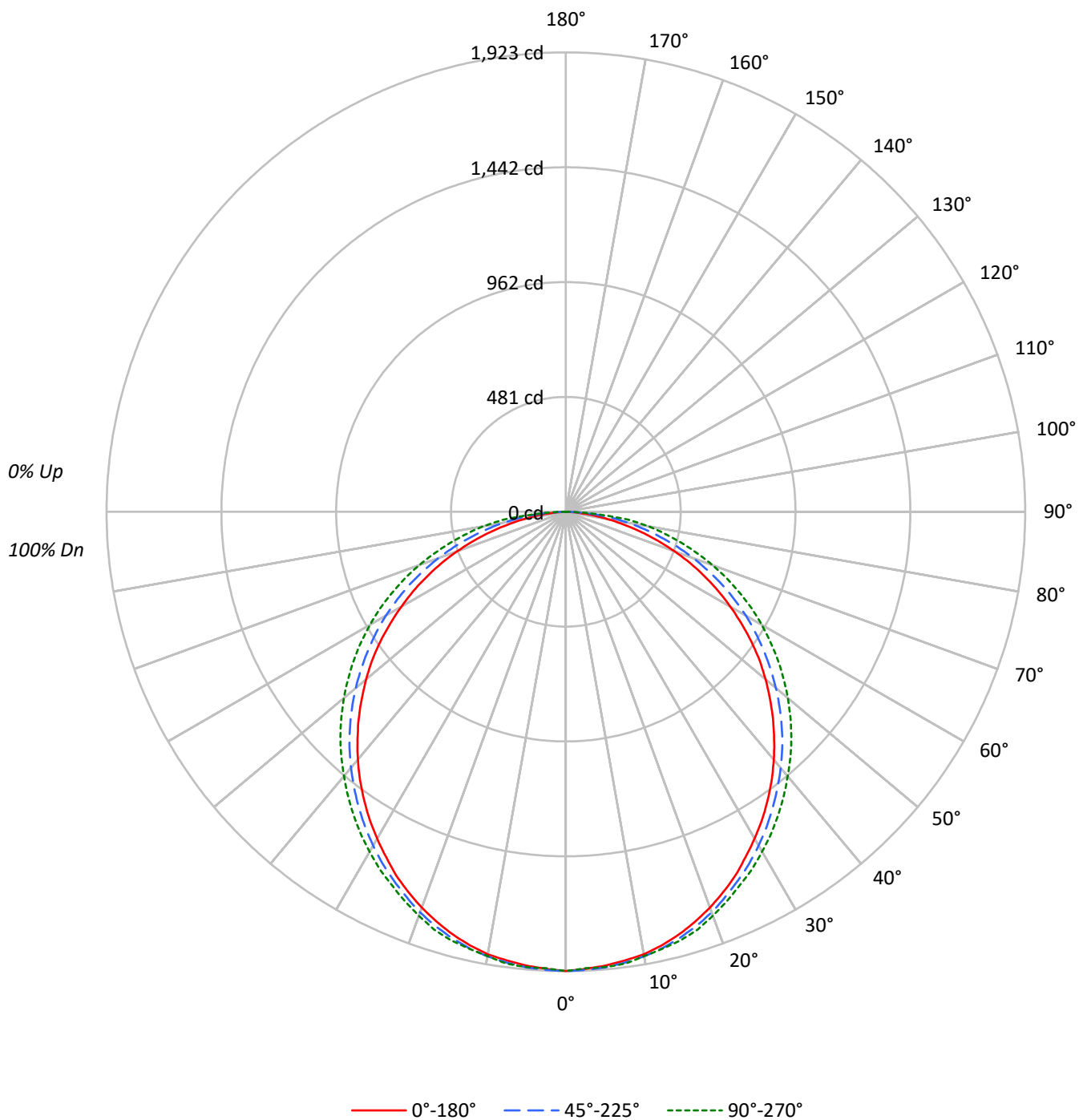
Lumens per Lamp: N/A
Luminaire Lumens: 5613.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2945	2945	2945
5°	2931	2943	2941
10°	2925	2938	2936
15°	2904	2927	2945
20°	2875	2909	2933
25°	2839	2879	2914
30°	2795	2854	2906
35°	2754	2826	2897
40°	2709	2798	2889
45°	2657	2769	2892
50°	2600	2735	2891
55°	2533	2697	2894
60°	2437	2667	2901
65°	2326	2616	2910
70°	2167	2543	2923
75°	1932	2442	2952
80°	1597	2325	3096
85°	1039	2100	2706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	3.2
10°-20°	520.7	9.3
20°-30°	785.2	14.0
30°-40°	945.8	16.8
40°-50°	987.7	17.6
50°-60°	907.1	16.2
60°-70°	714.5	12.7
70°-80°	438.3	7.8
80°-90°	131.9	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°	1487.7	26.5
0°-40°	2433.5	43.4
0°-60°	4328.3	77.1
0°-90°	5613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1907	1909	1914	1920	1913	181
15°	1832	1835	1846	1857	1857	516
25°	1680	1684	1703	1724	1724	773
35°	1473	1480	1511	1542	1549	921
45°	1227	1240	1278	1323	1335	946
55°	948	966	1010	1067	1084	847
65°	642	664	722	782	803	635
75°	326	352	413	478	499	346
85°	59	81	120	152	154	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1915.2	1918.9	1920.1	1921.4	1912.7
5°	1906.6	1909.1	1914.0	1920.1	1912.7
7.5°	1894.3	1896.7	1902.9	1911.5	1907.8
10°	1880.7	1882.0	1889.3	1895.5	1888.1
12.5°	1858.6	1862.3	1870.9	1875.8	1873.3
15°	1831.5	1835.2	1846.2	1857.3	1857.3
17.5°	1799.4	1804.4	1817.9	1832.7	1833.9
20°	1763.7	1767.4	1784.7	1799.4	1799.4
22.5°	1723.1	1728.0	1745.2	1761.3	1763.7
25°	1680.0	1683.7	1703.4	1724.3	1724.3
27.5°	1629.5	1636.9	1661.5	1682.4	1687.4
30°	1580.2	1586.4	1613.5	1639.3	1643.0
32.5°	1528.5	1535.9	1564.2	1592.5	1598.7
35°	1473.1	1480.4	1511.2	1542.0	1549.4
37.5°	1415.2	1423.8	1455.8	1491.5	1498.9
40°	1354.8	1364.7	1399.2	1437.3	1444.7
42.5°	1290.8	1304.3	1341.3	1380.7	1391.8
45°	1226.7	1240.3	1278.5	1322.8	1335.1
47.5°	1159.0	1175.0	1214.4	1261.2	1274.8
50°	1091.2	1107.3	1147.9	1198.4	1213.2
52.5°	1022.3	1038.3	1080.2	1133.1	1149.1
55°	948.4	965.6	1010.0	1066.6	1083.9
57.5°	872.0	894.2	941.0	998.9	1016.1
60°	795.6	817.8	870.8	927.4	947.1
62.5°	720.5	741.5	795.6	856.0	876.9
65°	641.7	663.9	721.7	782.1	803.0
67.5°	564.1	586.3	644.2	707.0	729.1
70°	484.0	508.7	567.8	630.6	652.8
72.5°	404.0	429.8	490.2	554.2	575.2
75°	326.4	352.3	412.6	477.9	498.8
77.5°	250.0	278.4	337.5	404.0	423.7
80°	181.1	208.1	263.6	328.8	351.0
82.5°	115.8	139.2	194.6	256.2	272.2
85°	59.1	81.3	119.5	151.5	154.0
87.5°	18.5	25.9	39.4	59.1	60.4
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	15.23	16.89	15.60	17.21	17.52	16.06	17.72	16.43	18.04	18.35
	3H	16.99	18.49	17.36	18.82	19.18	18.18	19.68	18.55	20.01	20.37
	4H	17.60	19.03	18.00	19.37	19.75	19.07	20.49	19.46	20.84	21.21
	6H	18.02	19.34	18.43	19.70	20.09	19.85	21.17	20.26	21.53	21.92
	8H	18.12	19.39	18.55	19.77	20.17	20.17	21.43	20.59	21.82	22.22
	12H	18.18	19.39	18.60	19.77	20.20	20.38	21.59	20.81	21.97	22.40
4H	2H	16.00	17.42	16.40	17.77	18.15	16.65	18.07	17.05	18.42	18.79
	3H	17.98	19.18	18.39	19.57	19.97	19.00	20.20	19.41	20.60	21.00
	4H	18.72	19.80	19.15	20.22	20.65	20.06	21.14	20.49	21.55	21.99
	6H	19.25	20.20	19.70	20.64	21.09	21.01	21.96	21.46	22.40	22.85
	8H	19.39	20.28	19.85	20.72	21.19	21.41	22.30	21.86	22.74	23.20
	12H	19.48	20.28	19.95	20.75	21.22	21.68	22.49	22.16	22.96	23.43
8H	4H	19.18	20.07	19.63	20.51	20.97	20.34	21.24	20.80	21.68	22.14
	6H	19.84	20.58	20.33	21.07	21.54	21.46	22.20	21.95	22.69	23.16
	8H	20.05	20.72	20.55	21.22	21.71	21.97	22.64	22.48	23.14	23.63
	12H	20.19	20.78	20.69	21.27	21.83	22.35	22.95	22.86	23.44	23.99
12H	4H	19.26	20.07	19.74	20.54	21.01	20.37	21.17	20.85	21.65	22.12
	6H	19.97	20.64	20.48	21.14	21.63	21.50	22.17	22.01	22.68	23.16
	8H	20.25	20.84	20.75	21.33	21.89	22.08	22.67	22.59	23.16	23.72