

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: P1588715

Luminaire Tested: 24CZSP-A-57-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588715
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

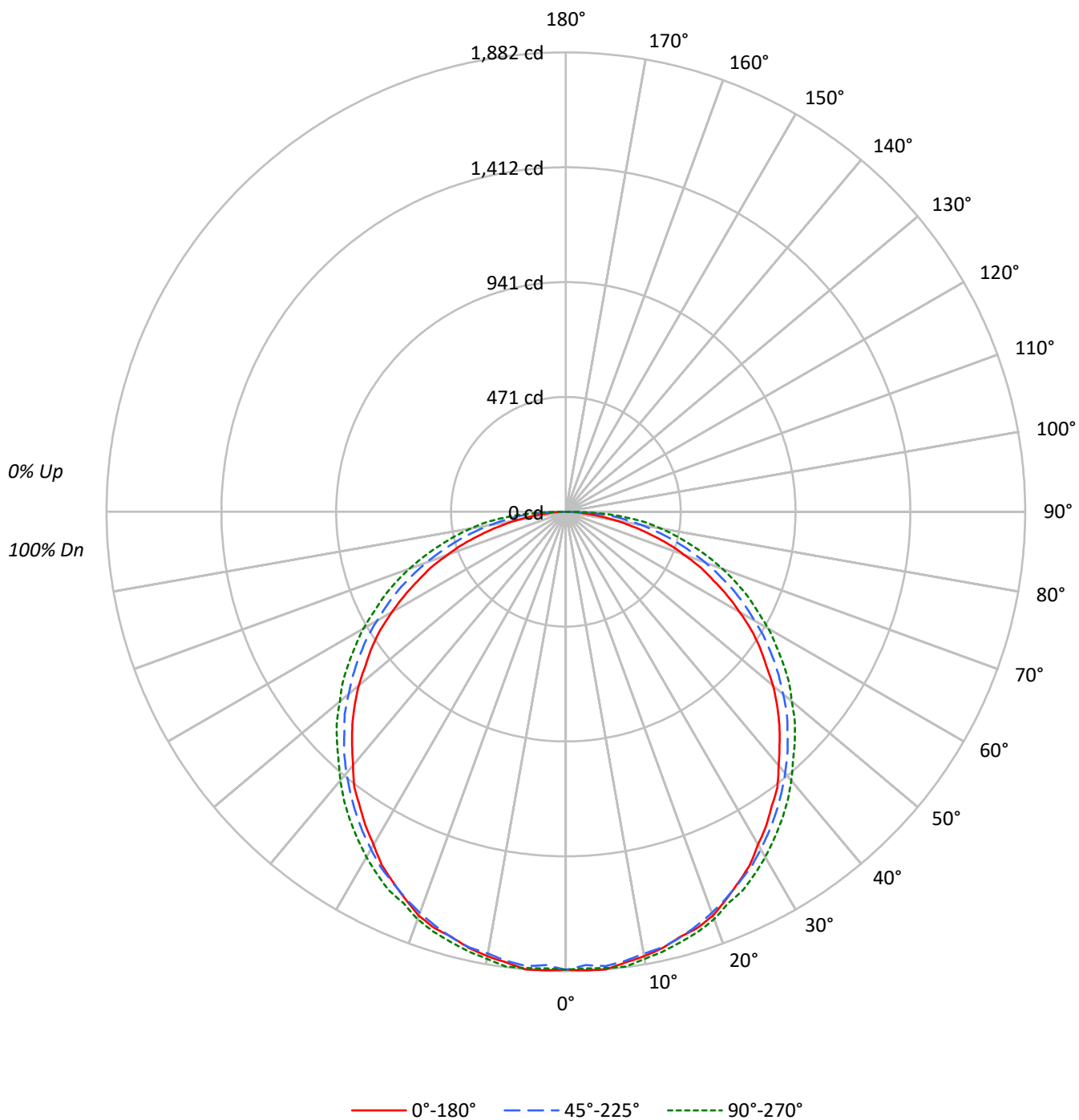
Lumens per Lamp: N/A
Luminaire Lumens: 5727.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	2874	2874	2874
5°	2893	2872	2885
10°	2876	2858	2892
15°	2860	2864	2893
20°	2870	2850	2895
25°	2830	2835	2895
30°	2785	2824	2889
35°	2752	2808	2882
40°	2712	2794	2874
45°	2680	2781	2873
50°	2641	2768	2879
55°	2593	2758	2904
60°	2521	2739	2937
65°	2421	2739	2982
70°	2309	2721	3053
75°	2126	2727	3165
80°	1863	2783	3484
85°	1422	3205	4170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	3.1
10°-20°	512.1	8.9
20°-30°	777.9	13.6
30°-40°	942.3	16.5
40°-50°	991.4	17.3
50°-60°	921.8	16.1
60°-70°	742.2	13.0
70°-80°	480.8	8.4
80°-90°	180.3	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°	1468.2	25.6
0°-40°	2410.5	42.1
0°-60°	4323.7	75.5
0°-90°	5727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1882	1879	1868	1879	1876	178
15°	1804	1810	1806	1828	1824	511
25°	1675	1673	1677	1706	1713	772
35°	1472	1483	1502	1528	1542	922
45°	1237	1254	1284	1311	1326	954
55°	971	996	1033	1074	1088	866
65°	668	698	756	801	823	664
75°	359	395	461	514	535	382
85°	81	119	182	228	237	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.3	1876.3	1876.3	1876.3	1876.3
2.5°	1880.4	1880.4	1858.5	1881.8	1872.2
5°	1881.8	1879.0	1868.1	1879.0	1876.3
7.5°	1862.6	1865.3	1855.7	1869.4	1879.0
10°	1848.9	1851.6	1837.9	1859.8	1859.8
12.5°	1831.0	1833.8	1828.3	1848.9	1844.7
15°	1803.6	1810.5	1806.3	1828.3	1824.2
17.5°	1788.5	1783.0	1778.9	1795.4	1803.6
20°	1761.1	1748.7	1748.7	1770.7	1776.2
22.5°	1717.2	1713.1	1714.5	1741.9	1736.4
25°	1674.7	1673.3	1677.4	1706.2	1713.1
27.5°	1632.2	1629.4	1641.8	1669.2	1674.7
30°	1574.6	1580.0	1596.5	1626.7	1633.5
32.5°	1526.5	1536.1	1551.2	1580.0	1588.3
35°	1471.7	1482.7	1501.9	1527.9	1541.6
37.5°	1423.7	1430.5	1451.1	1475.8	1492.3
40°	1356.5	1374.3	1397.6	1433.3	1437.4
42.5°	1296.1	1314.0	1344.1	1382.5	1378.4
45°	1237.1	1253.6	1283.8	1311.2	1326.3
47.5°	1174.1	1189.1	1228.9	1261.8	1272.8
50°	1108.2	1127.4	1161.7	1196.0	1208.3
52.5°	1034.2	1054.7	1098.6	1135.7	1153.5
55°	971.1	995.8	1032.8	1073.9	1087.6
57.5°	901.1	921.7	967.0	1008.1	1021.8
60°	822.9	847.6	894.3	938.1	958.7
62.5°	747.5	774.9	824.3	869.6	886.0
65°	667.9	698.1	755.7	801.0	822.9
67.5°	599.4	624.1	680.3	731.0	754.4
70°	515.7	548.6	607.6	663.8	681.7
72.5°	441.6	470.4	532.2	588.4	610.3
75°	359.3	395.0	460.8	514.3	534.9
77.5°	283.9	320.9	386.8	443.0	466.3
80°	211.2	246.9	315.5	373.1	395.0
82.5°	142.6	178.3	246.9	303.1	327.8
85°	80.9	119.3	182.4	227.7	237.3
87.5°	35.7	68.6	102.9	123.4	131.7
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	15.35	17.03	15.72	17.35	17.66	16.03	17.71	16.39	18.02	18.34
	3H	17.21	18.73	17.58	19.06	19.42	18.24	19.77	18.62	20.10	20.46
	4H	17.89	19.34	18.29	19.68	20.06	19.21	20.65	19.61	21.00	21.37
	6H	18.38	19.73	18.79	20.09	20.48	20.10	21.44	20.51	21.81	22.20
	8H	18.53	19.82	18.95	20.20	20.60	20.50	21.79	20.93	22.18	22.57
	12H	18.62	19.85	19.05	20.23	20.66	20.86	22.10	21.29	22.48	22.90
4H	2H	16.15	17.59	16.54	17.94	18.31	16.66	18.11	17.06	18.46	18.83
	3H	18.23	19.45	18.64	19.85	20.25	19.13	20.35	19.53	20.74	21.14
	4H	19.05	20.16	19.48	20.57	21.01	20.25	21.36	20.68	21.78	22.21
	6H	19.68	20.65	20.13	21.09	21.54	21.32	22.30	21.78	22.74	23.19
	8H	19.87	20.79	20.33	21.23	21.69	21.81	22.73	22.27	23.17	23.63
	12H	20.01	20.84	20.49	21.31	21.78	22.27	23.09	22.74	23.57	24.03
8H	4H	19.56	20.48	20.02	20.92	21.38	20.60	21.51	21.05	21.95	22.42
	6H	20.35	21.11	20.84	21.60	22.07	21.85	22.61	22.34	23.10	23.57
	8H	20.63	21.32	21.14	21.82	22.31	22.47	23.16	22.97	23.66	24.15
	12H	20.85	21.46	21.35	21.95	22.51	23.08	23.69	23.58	24.18	24.74
12H	4H	19.67	20.50	20.15	20.97	21.44	20.63	21.46	21.11	21.93	22.40
	6H	20.51	21.20	21.02	21.71	22.19	21.92	22.61	22.43	23.12	23.60
	8H	20.88	21.50	21.39	21.98	22.54	22.63	23.24	23.13	23.73	24.28