

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: P1584655

Luminaire Tested: 14CZSP-A-52-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-52-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

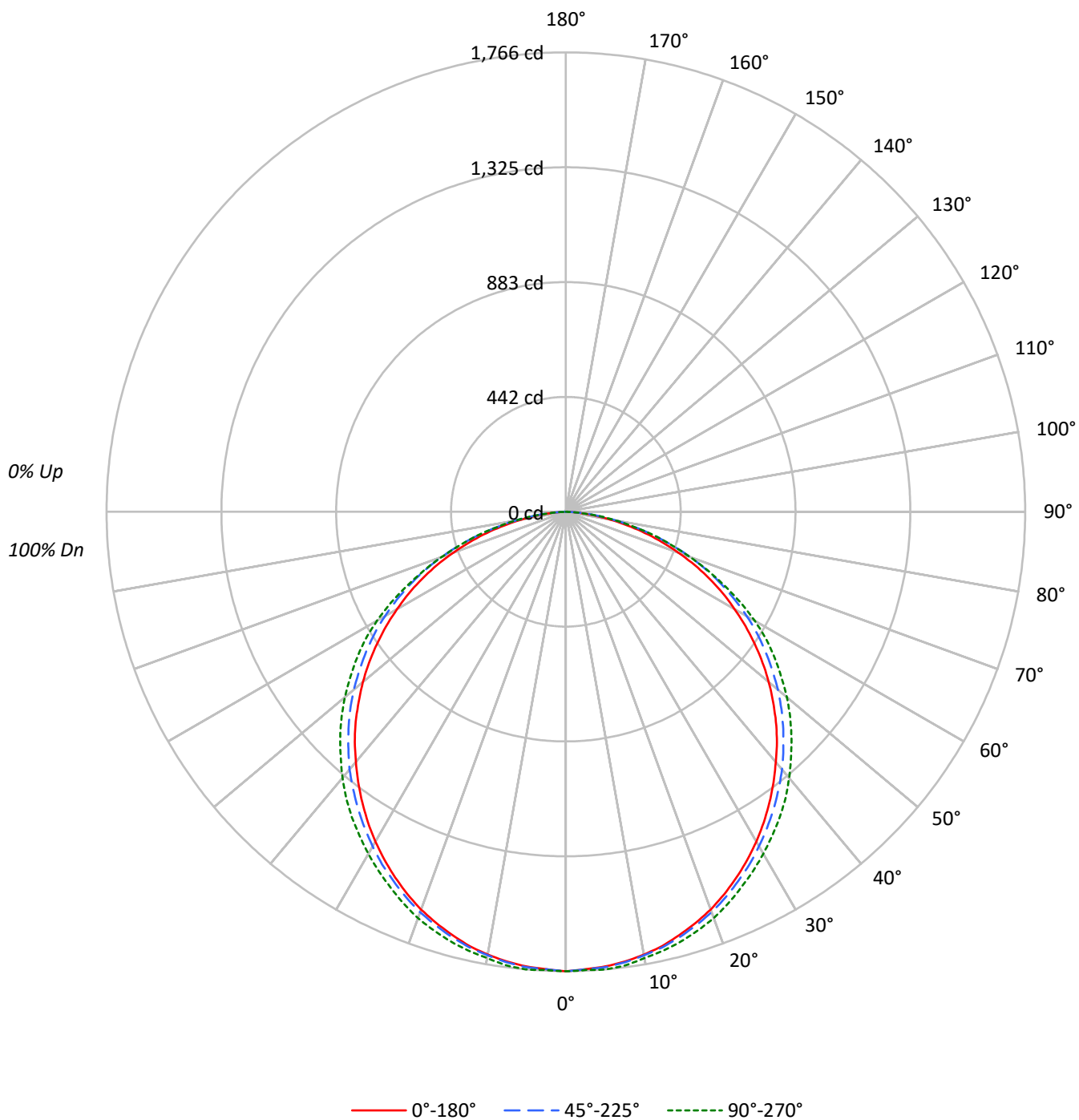
Lumens per Lamp: N/A
Luminaire Lumens: 5097.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	53		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5952	5952	5952
5°	5934	5944	5975
10°	5915	5925	5961
15°	5878	5904	5967
20°	5836	5874	5960
25°	5770	5826	5927
30°	5697	5779	5909
35°	5613	5731	5899
40°	5523	5690	5876
45°	5444	5631	5847
50°	5339	5577	5814
55°	5211	5504	5761
60°	5051	5418	5652
65°	4856	5265	5373
70°	4556	5002	5002
75°	4092	4545	4564
80°	3373	3842	3842
85°	2335	2803	2455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	3.3
10°-20°	479.2	9.4
20°-30°	725.3	14.2
30°-40°	875.6	17.2
40°-50°	914.8	17.9
50°-60°	838.0	16.4
60°-70°	646.1	12.7
70°-80°	364.5	7.2
80°-90°	86.3	1.7
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°	1371.8	26.9
0°-40°	2247.4	44.1
0°-60°	4000.1	78.5
0°-90°	5097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1754	1766	1757	1760	1766	167
15°	1685	1695	1692	1706	1710	476
25°	1552	1566	1567	1588	1594	715
35°	1364	1383	1393	1423	1434	854
45°	1142	1162	1182	1216	1227	881
55°	887	910	937	972	981	792
65°	609	629	660	683	674	602
75°	314	338	349	358	351	333
85°	60	68	72	77	64	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.5	1766.5	1766.5	1766.5	1766.5
2.5°	1760.4	1772.5	1760.4	1766.5	1763.4
5°	1754.4	1766.5	1757.4	1760.4	1766.5
7.5°	1743.8	1755.9	1746.8	1751.3	1758.9
10°	1728.7	1740.8	1731.7	1739.3	1742.3
12.5°	1710.5	1721.1	1715.1	1724.1	1728.7
15°	1684.9	1695.4	1692.4	1706.0	1710.5
17.5°	1657.7	1669.7	1666.7	1683.3	1687.9
20°	1627.4	1638.0	1638.0	1653.1	1662.2
22.5°	1591.2	1603.3	1604.8	1621.4	1630.5
25°	1551.9	1565.5	1567.0	1588.1	1594.2
27.5°	1509.6	1523.2	1529.2	1551.9	1557.9
30°	1464.2	1477.8	1485.4	1511.1	1518.6
32.5°	1415.9	1432.5	1440.1	1468.8	1476.3
35°	1364.5	1382.6	1393.2	1423.4	1434.0
37.5°	1311.6	1329.8	1343.4	1375.1	1387.2
40°	1255.7	1275.4	1293.5	1325.2	1335.8
42.5°	1201.3	1221.0	1237.6	1270.8	1281.4
45°	1142.4	1162.0	1181.7	1216.4	1227.0
47.5°	1080.4	1101.6	1124.2	1156.0	1169.6
50°	1018.5	1039.6	1063.8	1097.0	1109.1
52.5°	953.5	976.2	1000.3	1035.1	1044.2
55°	887.0	909.7	936.9	971.6	980.7
57.5°	819.0	843.2	871.9	905.1	914.2
60°	749.5	773.7	803.9	835.6	838.7
62.5°	681.5	702.7	732.9	763.1	758.6
65°	609.0	628.6	660.3	683.0	673.9
67.5°	536.4	557.6	586.3	602.9	590.8
70°	462.4	485.1	507.7	519.8	507.7
72.5°	388.3	412.5	429.1	436.7	426.1
75°	314.3	338.5	349.1	358.1	350.6
77.5°	243.3	266.0	270.5	281.1	270.5
80°	173.8	194.9	198.0	208.5	198.0
82.5°	111.8	125.4	131.5	140.5	130.0
85°	60.4	68.0	72.5	77.1	63.5
87.5°	21.2	24.2	21.2	18.1	7.6
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	17.91	19.56	18.27	19.87	20.19	18.45	20.10	18.82	20.42	20.73
	3H	19.70	21.19	20.07	21.52	21.88	20.26	21.75	20.64	22.08	22.44
	4H	20.34	21.74	20.73	22.09	22.47	20.91	22.31	21.30	22.66	23.04
	6H	20.76	22.07	21.17	22.43	22.82	21.35	22.65	21.76	23.01	23.40
	8H	20.87	22.12	21.29	22.50	22.90	21.47	22.71	21.89	23.10	23.50
	12H	20.92	22.12	21.35	22.50	22.93	21.53	22.72	21.96	23.10	23.53
4H	2H	18.64	20.04	19.03	20.39	20.77	19.06	20.47	19.46	20.82	21.19
	3H	20.64	21.82	21.05	22.22	22.62	21.10	22.28	21.51	22.68	23.07
	4H	21.41	22.48	21.84	22.89	23.33	21.88	22.95	22.31	23.36	23.79
	6H	21.96	22.89	22.41	23.33	23.78	22.45	23.38	22.90	23.82	24.27
	8H	22.10	22.97	22.56	23.42	23.88	22.61	23.48	23.07	23.93	24.39
	12H	22.19	22.97	22.66	23.45	23.91	22.70	23.49	23.18	23.96	24.43
8H	4H	21.75	22.63	22.21	23.07	23.53	22.17	23.04	22.63	23.48	23.95
	6H	22.41	23.14	22.91	23.63	24.10	22.85	23.57	23.34	24.06	24.54
	8H	22.62	23.27	23.13	23.78	24.26	23.08	23.73	23.59	24.24	24.72
	12H	22.76	23.33	23.26	23.82	24.38	23.23	23.81	23.74	24.30	24.86
12H	4H	21.79	22.58	22.27	23.05	23.52	22.19	22.98	22.67	23.45	23.92
	6H	22.47	23.12	22.98	23.63	24.11	22.89	23.54	23.40	24.05	24.53
	8H	22.73	23.30	23.23	23.79	24.35	23.17	23.75	23.68	24.24	24.80