

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: P1584659

Luminaire Tested: 14CZSP-A-52-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584659
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-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

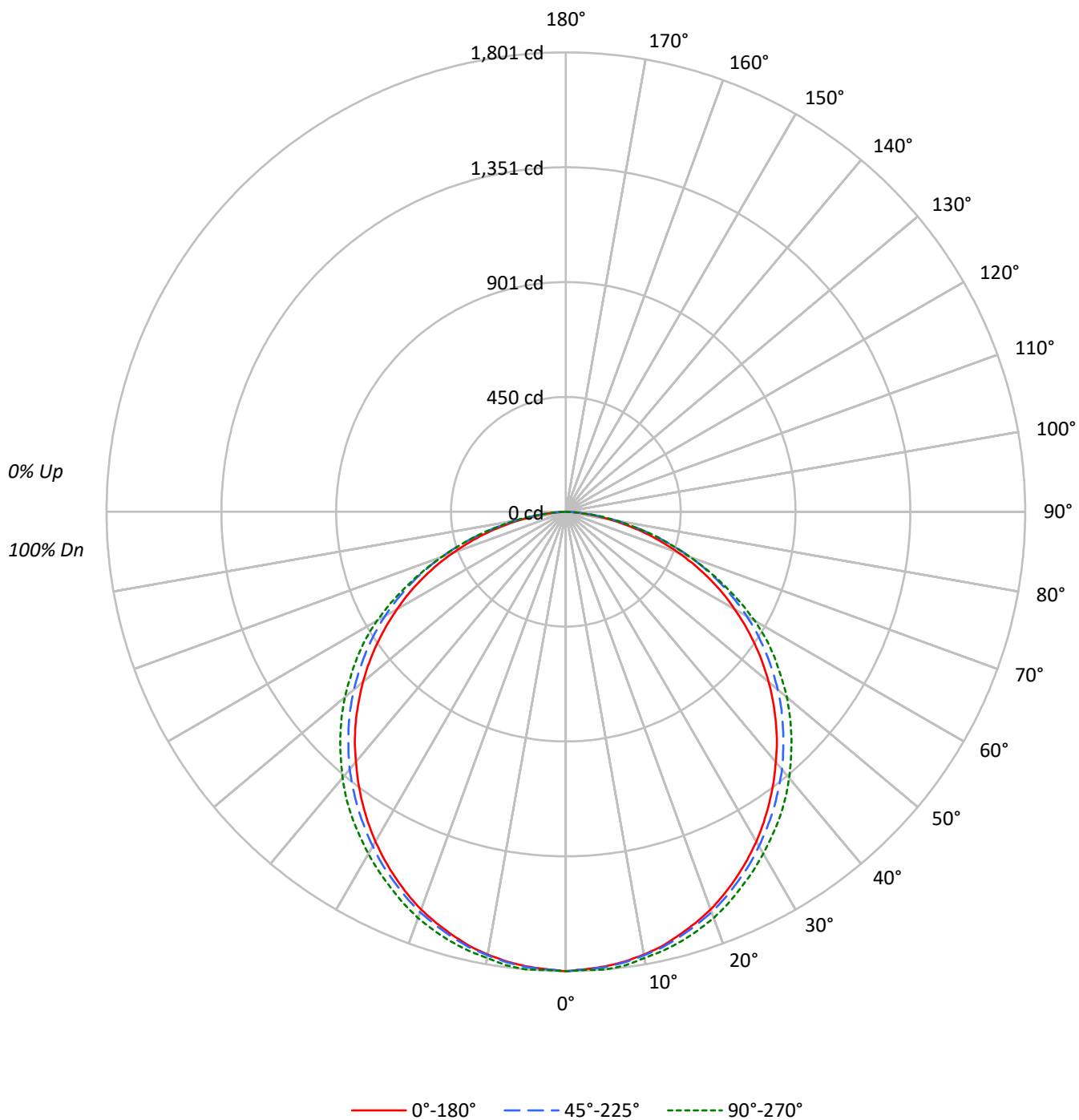
Lumens per Lamp: N/A
Luminaire Lumens: 5197.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6069	6069	6069
5°	6051	6061	6092
10°	6031	6041	6078
15°	5993	6020	6084
20°	5950	5989	6077
25°	5883	5940	6043
30°	5809	5893	6025
35°	5723	5844	6015
40°	5632	5801	5991
45°	5551	5742	5962
50°	5444	5686	5928
55°	5313	5612	5874
60°	5150	5524	5763
65°	4950	5368	5479
70°	4645	5100	5100
75°	4173	4633	4653
80°	3438	3916	3916
85°	2382	2861	2501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5962 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	3.3
10°-20°	488.6	9.4
20°-30°	739.5	14.2
30°-40°	892.8	17.2
40°-50°	932.7	17.9
50°-60°	854.4	16.4
60°-70°	658.8	12.7
70°-80°	371.7	7.2
80°-90°	88.0	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°	1398.7	26.9
0°-40°	2291.5	44.1
0°-60°	4078.6	78.5
0°-90°	5197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1789	1801	1792	1795	1801	170
15°	1718	1729	1726	1740	1744	485
25°	1582	1596	1598	1619	1626	729
35°	1391	1410	1421	1451	1462	870
45°	1165	1185	1205	1240	1251	898
55°	904	928	955	991	1000	808
65°	621	641	673	696	687	614
75°	320	345	356	365	357	340
85°	62	69	74	79	65	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1801.1	1801.1	1801.1	1801.1	1801.1
2.5°	1794.9	1807.3	1794.9	1801.1	1798.0
5°	1788.8	1801.1	1791.9	1794.9	1801.1
7.5°	1778.0	1790.3	1781.1	1785.7	1793.4
10°	1762.6	1774.9	1765.7	1773.4	1776.5
12.5°	1744.1	1754.9	1748.7	1758.0	1762.6
15°	1717.9	1728.7	1725.6	1739.5	1744.1
17.5°	1690.2	1702.5	1699.4	1716.4	1721.0
20°	1659.4	1670.2	1670.2	1685.6	1694.8
22.5°	1622.4	1634.7	1636.3	1653.2	1662.4
25°	1582.3	1596.2	1597.7	1619.3	1625.5
27.5°	1539.2	1553.1	1559.2	1582.3	1588.5
30°	1493.0	1506.8	1514.5	1540.7	1548.4
32.5°	1443.7	1460.6	1468.3	1497.6	1505.3
35°	1391.3	1409.8	1420.6	1451.4	1462.2
37.5°	1337.4	1355.8	1369.7	1402.1	1414.4
40°	1280.3	1300.4	1318.9	1351.2	1362.0
42.5°	1224.9	1244.9	1261.9	1295.8	1306.5
45°	1164.8	1184.8	1204.9	1240.3	1251.1
47.5°	1101.6	1123.2	1146.3	1178.7	1192.5
50°	1038.5	1060.0	1084.7	1118.6	1130.9
52.5°	972.2	995.3	1020.0	1055.4	1064.6
55°	904.4	927.5	955.3	990.7	999.9
57.5°	835.1	859.7	889.0	922.9	932.1
60°	764.2	788.9	819.7	852.0	855.1
62.5°	694.9	716.4	747.3	778.1	773.4
65°	620.9	640.9	673.3	696.4	687.2
67.5°	547.0	568.5	597.8	614.8	602.4
70°	471.5	494.6	517.7	530.0	517.7
72.5°	396.0	420.6	437.6	445.3	434.5
75°	320.5	345.1	355.9	365.2	357.4
77.5°	248.1	271.2	275.8	286.6	275.8
80°	177.2	198.8	201.8	212.6	201.8
82.5°	114.0	127.9	134.0	143.3	132.5
85°	61.6	69.3	74.0	78.6	64.7
87.5°	21.6	24.7	21.6	18.5	7.7
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	17.98	19.63	18.34	19.94	20.26	18.52	20.17	18.89	20.49	20.80
	3H	19.77	21.26	20.14	21.58	21.94	20.33	21.82	20.71	22.15	22.51
	4H	20.40	21.81	20.80	22.16	22.53	20.97	22.38	21.37	22.73	23.10
	6H	20.83	22.13	21.24	22.50	22.89	21.41	22.72	21.82	23.08	23.47
	8H	20.94	22.18	21.36	22.57	22.97	21.54	22.78	21.96	23.17	23.57
	12H	20.99	22.19	21.42	22.57	23.00	21.59	22.79	22.02	23.17	23.60
4H	2H	18.70	20.11	19.10	20.46	20.83	19.13	20.54	19.53	20.88	21.26
	3H	20.71	21.89	21.12	22.29	22.69	21.17	22.35	21.57	22.74	23.14
	4H	21.48	22.55	21.91	22.96	23.39	21.95	23.01	22.38	23.43	23.86
	6H	22.02	22.96	22.48	23.40	23.85	22.51	23.45	22.97	23.89	24.34
	8H	22.17	23.04	22.63	23.48	23.95	22.68	23.55	23.14	23.99	24.46
	12H	22.25	23.04	22.73	23.51	23.98	22.77	23.56	23.25	24.03	24.50
8H	4H	21.82	22.70	22.28	23.14	23.60	22.23	23.11	22.69	23.55	24.01
	6H	22.48	23.21	22.97	23.69	24.17	22.92	23.64	23.41	24.13	24.60
	8H	22.69	23.34	23.20	23.84	24.33	23.15	23.80	23.66	24.30	24.79
	12H	22.82	23.40	23.33	23.89	24.45	23.30	23.87	23.81	24.36	24.92
12H	4H	21.86	22.64	22.34	23.12	23.59	22.26	23.04	22.74	23.52	23.99
	6H	22.54	23.19	23.04	23.69	24.18	22.96	23.61	23.46	24.11	24.60
	8H	22.79	23.37	23.30	23.86	24.42	23.24	23.82	23.75	24.31	24.87