

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: P1585759

Luminaire Tested: 14CZSP-SB-52-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-52-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

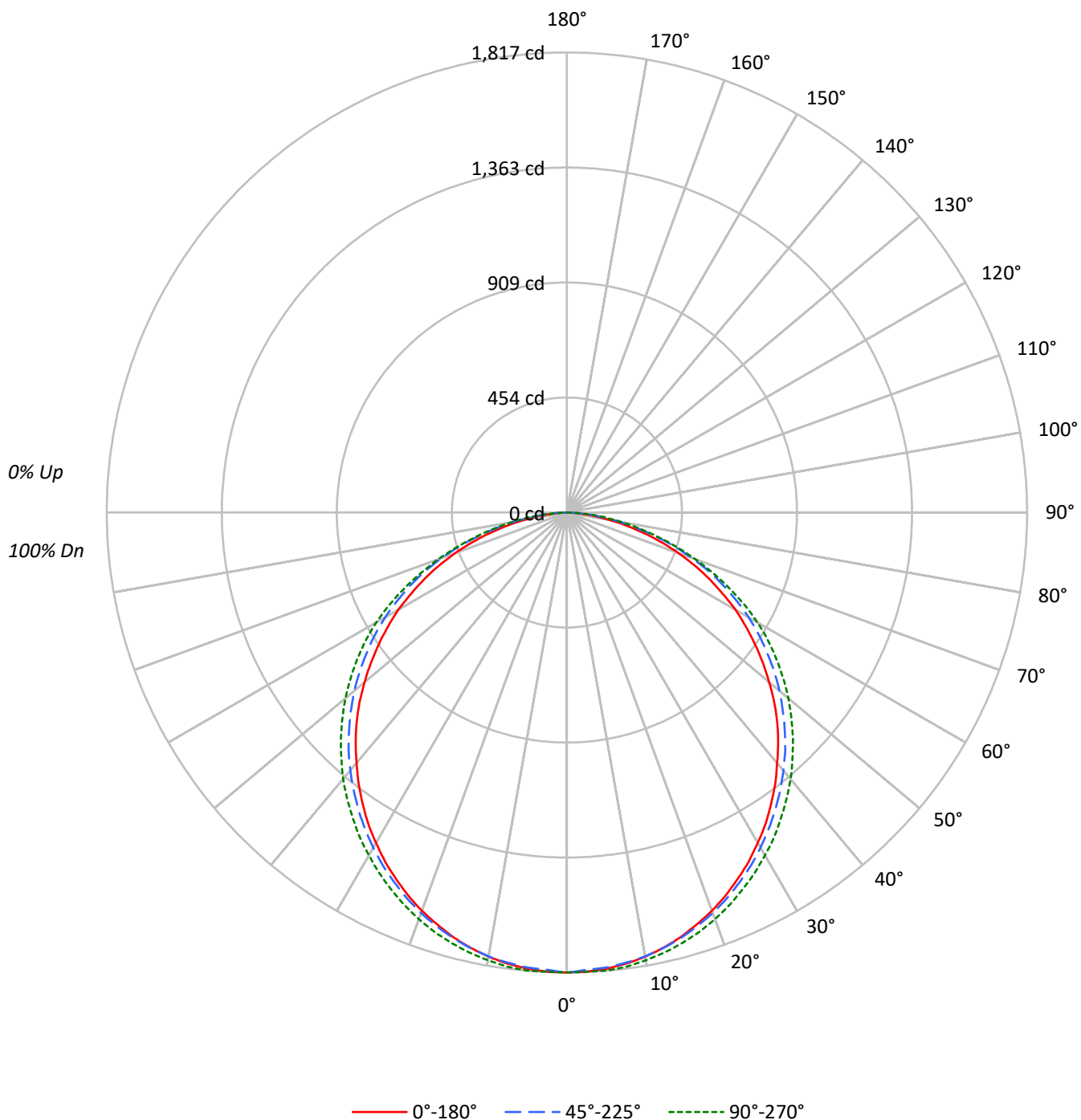
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5249.0 lumens
Efficiency: N/A
Efficacy: 142.2 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

TEST NUMBER: P1585759
CATALOG NUMBER: 14CZSP-SB-52-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1585759

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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	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	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	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		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°	6122	6122	6122
5°	6117	6102	6143
10°	6095	6090	6144
15°	6056	6069	6140
20°	6003	6038	6130
25°	5937	5993	6106
30°	5863	5948	6084
35°	5782	5900	6062
40°	5680	5850	6046
45°	5599	5797	6013
50°	5466	5743	5985
55°	5326	5668	5939
60°	5182	5585	5860
65°	4950	5438	5637
70°	4619	5192	5319
75°	4114	4705	4843
80°	3359	4079	4285
85°	2223	3244	3480

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6013 cd/sqm

TEST NUMBER: P1585759

CATALOG NUMBER: 14CZSP-SB-52-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.3
10°-20°	492.9	9.4
20°-30°	746.3	14.2
30°-40°	900.8	17.2
40°-50°	940.8	17.9
50°-60°	860.6	16.4
60°-70°	665.3	12.7
70°-80°	376.7	7.2
80°-90°	93.6	1.8
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°	1411.3	26.9
0°-40°	2312.1	44.0
0°-60°	4113.5	78.4
0°-90°	5249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1809	1821	1804	1806	1816	172
15°	1736	1751	1740	1748	1760	490
25°	1597	1617	1612	1627	1642	736
35°	1406	1425	1434	1458	1474	879
45°	1175	1198	1217	1248	1262	905
55°	907	934	965	995	1011	811
65°	621	646	682	702	707	613
75°	316	343	361	370	372	335
85°	58	66	84	88	90	74
90°	0	0	0	0	0	

TEST NUMBER: P1585759

CATALOG NUMBER: 14CZSP-SB-52-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.9	1816.9	1816.9	1816.9	1816.9
2.5°	1814.6	1827.5	1807.8	1811.6	1815.4
5°	1808.6	1821.4	1804.0	1805.6	1816.1
7.5°	1797.2	1811.6	1793.5	1796.5	1809.3
10°	1781.4	1795.7	1779.9	1782.9	1795.7
12.5°	1760.9	1775.3	1761.7	1766.2	1780.6
15°	1736.0	1751.1	1739.8	1748.1	1760.2
17.5°	1705.8	1724.7	1712.6	1725.4	1737.5
20°	1674.0	1692.9	1683.8	1695.2	1709.5
22.5°	1637.7	1656.6	1649.8	1661.9	1677.8
25°	1596.9	1617.3	1612.0	1627.1	1642.2
27.5°	1554.5	1574.2	1572.7	1589.3	1605.2
30°	1506.9	1528.1	1528.8	1548.5	1563.6
32.5°	1459.3	1478.2	1482.7	1504.6	1522.0
35°	1405.6	1425.2	1434.3	1458.5	1473.6
37.5°	1351.1	1373.1	1382.9	1409.4	1425.2
40°	1291.4	1316.4	1330.0	1358.0	1374.6
42.5°	1234.7	1257.4	1275.5	1303.5	1318.6
45°	1175.0	1197.7	1216.6	1247.6	1261.9
47.5°	1110.7	1135.7	1156.1	1186.3	1202.2
50°	1042.7	1069.9	1095.6	1125.1	1141.7
52.5°	975.4	1001.8	1031.3	1060.0	1076.7
55°	906.6	933.8	964.8	995.0	1010.9
57.5°	837.0	864.2	898.2	925.5	942.1
60°	769.0	793.9	828.7	855.9	869.5
62.5°	691.8	720.6	756.1	783.3	790.9
65°	620.8	646.5	682.0	702.4	707.0
67.5°	545.1	570.9	606.4	617.7	624.5
70°	468.8	496.0	527.0	534.6	539.9
72.5°	391.7	419.6	443.8	451.4	455.9
75°	316.0	343.3	361.4	370.5	372.0
77.5°	242.7	267.7	284.3	294.9	294.9
80°	173.1	192.0	210.2	221.5	220.8
82.5°	110.4	124.8	143.7	152.0	157.3
85°	57.5	66.5	83.9	87.7	90.0
87.5°	18.1	23.4	30.2	25.0	24.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585759

CATALOG NUMBER: 14CZSP-SB-52-L845

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	17.97	19.63	18.34	19.94	20.25	18.52	20.17	18.88	20.48	20.80
	3H	19.75	21.24	20.12	21.57	21.93	20.38	21.87	20.75	22.20	22.56
	4H	20.37	21.78	20.77	22.13	22.50	21.05	22.46	21.45	22.80	23.18
	6H	20.78	22.08	21.19	22.45	22.84	21.53	22.84	21.94	23.20	23.59
	8H	20.88	22.12	21.30	22.51	22.91	21.69	22.94	22.11	23.33	23.72
	12H	20.93	22.12	21.35	22.50	22.93	21.79	22.98	22.22	23.37	23.79
4H	2H	18.71	20.12	19.11	20.47	20.84	19.14	20.54	19.53	20.89	21.27
	3H	20.71	21.89	21.12	22.28	22.68	21.21	22.40	21.62	22.79	23.19
	4H	21.46	22.53	21.89	22.94	23.37	22.02	23.08	22.45	23.50	23.93
	6H	21.97	22.91	22.43	23.35	23.80	22.63	23.57	23.08	24.01	24.46
	8H	22.11	22.99	22.57	23.43	23.89	22.83	23.71	23.29	24.15	24.62
	12H	22.19	22.97	22.67	23.45	23.92	22.97	23.76	23.45	24.23	24.70
8H	4H	21.81	22.69	22.27	23.13	23.59	22.31	23.18	22.76	23.62	24.09
	6H	22.44	23.17	22.94	23.66	24.13	23.04	23.77	23.53	24.25	24.73
	8H	22.64	23.29	23.15	23.80	24.28	23.31	23.96	23.82	24.47	24.95
	12H	22.76	23.34	23.27	23.83	24.39	23.52	24.09	24.02	24.58	25.14
12H	4H	21.85	22.64	22.33	23.11	23.58	22.33	23.12	22.81	23.59	24.06
	6H	22.51	23.16	23.02	23.67	24.15	23.08	23.73	23.59	24.24	24.72
	8H	22.76	23.33	23.26	23.82	24.38	23.41	23.98	23.91	24.47	25.03