

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: P1584354

Luminaire Tested: 14CZSP-52-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-52-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

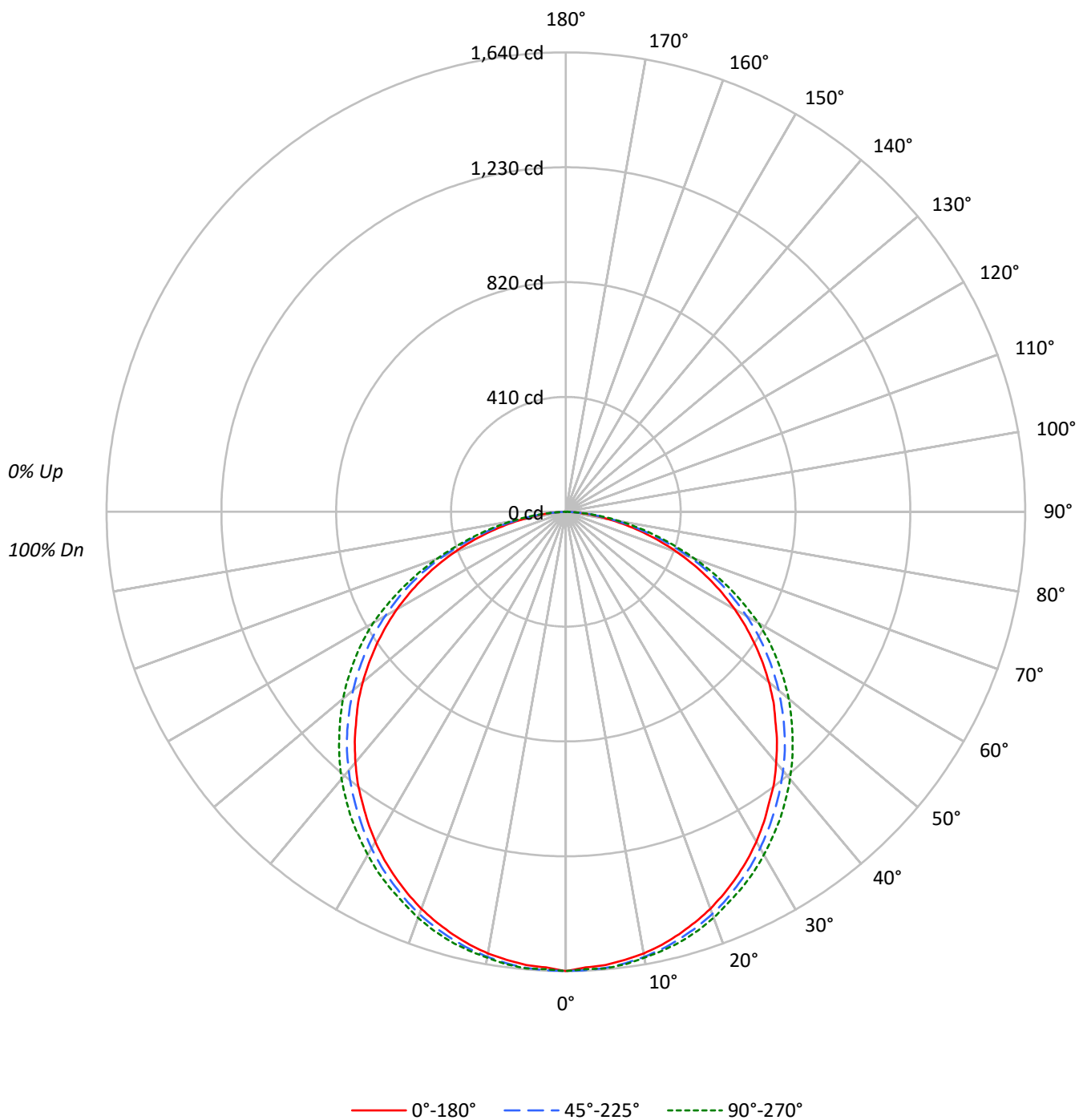
Lumens per Lamp: N/A
Luminaire Lumens: 4740.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5525	5525	5525
5°	5494	5529	5534
10°	5479	5519	5531
15°	5447	5503	5542
20°	5409	5481	5532
25°	5354	5440	5515
30°	5294	5397	5502
35°	5209	5350	5493
40°	5140	5306	5478
45°	5044	5259	5456
50°	4960	5197	5446
55°	4841	5123	5410
60°	4692	5021	5356
65°	4483	4884	5135
70°	4179	4612	4819
75°	3734	4160	4397
80°	3060	3506	3844
85°	2049	2563	2861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.3
10°-20°	445.2	9.4
20°-30°	674.1	14.2
30°-40°	814.0	17.2
40°-50°	850.7	17.9
50°-60°	779.5	16.4
60°-70°	601.7	12.7
70°-80°	338.5	7.1
80°-90°	81.0	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°	1274.5	26.9
0°-40°	2088.5	44.1
0°-60°	3718.8	78.5
0°-90°	4740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1624	1636	1635	1636	1636	154
15°	1561	1574	1578	1584	1589	441
25°	1440	1453	1463	1471	1483	664
35°	1266	1282	1300	1318	1335	793
45°	1058	1079	1104	1126	1145	818
55°	824	846	872	899	921	736
65°	562	587	613	637	644	556
75°	287	313	320	333	338	304
85°	53	61	66	73	74	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.6	1639.6	1639.6	1639.6	1639.6
2.5°	1628.4	1641.0	1638.2	1642.4	1634.7
5°	1624.2	1636.1	1634.7	1636.1	1636.1
7.5°	1613.8	1626.3	1625.6	1627.7	1629.1
10°	1601.2	1613.1	1613.1	1615.2	1616.5
12.5°	1583.8	1596.3	1597.7	1601.2	1604.0
15°	1561.4	1574.0	1577.5	1583.8	1588.6
17.5°	1536.3	1549.6	1555.1	1561.4	1567.7
20°	1508.4	1520.3	1528.6	1533.5	1542.6
22.5°	1475.6	1488.9	1497.9	1502.8	1512.6
25°	1440.0	1452.6	1463.1	1470.7	1483.3
27.5°	1402.4	1414.9	1427.5	1436.5	1451.2
30°	1360.5	1373.8	1387.0	1401.0	1414.2
32.5°	1315.1	1330.5	1345.1	1360.5	1375.1
35°	1266.3	1282.4	1300.5	1317.9	1335.4
37.5°	1221.0	1235.6	1254.4	1273.3	1290.7
40°	1168.6	1184.7	1206.3	1227.2	1245.4
42.5°	1115.6	1133.0	1156.8	1177.0	1196.5
45°	1058.4	1079.3	1103.7	1126.1	1144.9
47.5°	1005.4	1023.5	1047.9	1072.3	1091.9
50°	946.1	966.3	991.4	1017.2	1038.9
52.5°	886.1	907.0	932.8	958.6	981.0
55°	824.0	845.6	872.1	899.3	920.9
57.5°	760.5	783.5	810.7	837.9	859.6
60°	696.3	719.3	745.1	775.1	794.7
62.5°	629.3	655.1	679.5	707.5	719.3
65°	562.3	586.8	612.6	637.0	644.0
67.5°	494.0	519.1	542.1	558.2	567.2
70°	424.2	451.4	468.1	483.5	489.1
72.5°	355.1	382.3	392.1	406.8	412.3
75°	286.8	313.3	319.5	332.8	337.7
77.5°	220.5	244.9	247.0	262.3	266.5
80°	157.7	177.2	180.7	195.4	198.1
82.5°	101.2	115.1	120.0	132.6	136.7
85°	53.0	60.7	66.3	72.6	74.0
87.5°	17.4	21.6	18.1	18.8	17.4
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	17.65	19.30	18.02	19.62	19.93	18.19	19.84	18.56	20.15	20.47
	3H	19.43	20.92	19.80	21.25	21.61	20.05	21.54	20.42	21.87	22.23
	4H	20.05	21.46	20.45	21.81	22.18	20.72	22.12	21.11	22.47	22.85
	6H	20.46	21.77	20.87	22.13	22.52	21.19	22.50	21.60	22.86	23.25
	8H	20.57	21.81	20.99	22.20	22.60	21.34	22.59	21.76	22.97	23.37
	12H	20.61	21.81	21.04	22.19	22.62	21.42	22.62	21.85	23.00	23.43
4H	2H	18.38	19.78	18.77	20.13	20.50	18.80	20.20	19.20	20.55	20.93
	3H	20.37	21.55	20.78	21.95	22.35	20.87	22.05	21.28	22.45	22.85
	4H	21.13	22.20	21.56	22.61	23.04	21.67	22.73	22.10	23.15	23.58
	6H	21.66	22.59	22.11	23.03	23.48	22.27	23.20	22.72	23.64	24.10
	8H	21.79	22.67	22.25	23.11	23.57	22.46	23.33	22.92	23.77	24.24
	12H	21.87	22.66	22.35	23.13	23.60	22.58	23.37	23.06	23.84	24.31
8H	4H	21.46	22.34	21.92	22.78	23.24	21.94	22.82	22.40	23.26	23.72
	6H	22.10	22.83	22.60	23.32	23.79	22.65	23.38	23.15	23.87	24.34
	8H	22.30	22.96	22.81	23.46	23.95	22.91	23.56	23.42	24.07	24.55
	12H	22.43	23.01	22.94	23.50	24.06	23.09	23.67	23.60	24.16	24.72
12H	4H	21.50	22.29	21.98	22.76	23.23	21.97	22.75	22.44	23.23	23.69
	6H	22.16	22.81	22.67	23.32	23.80	22.69	23.34	23.20	23.85	24.33
	8H	22.41	22.99	22.92	23.48	24.04	23.00	23.57	23.50	24.06	24.62