

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: P1584615

Luminaire Tested: 14CZSP-A-47-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584615
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-47-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

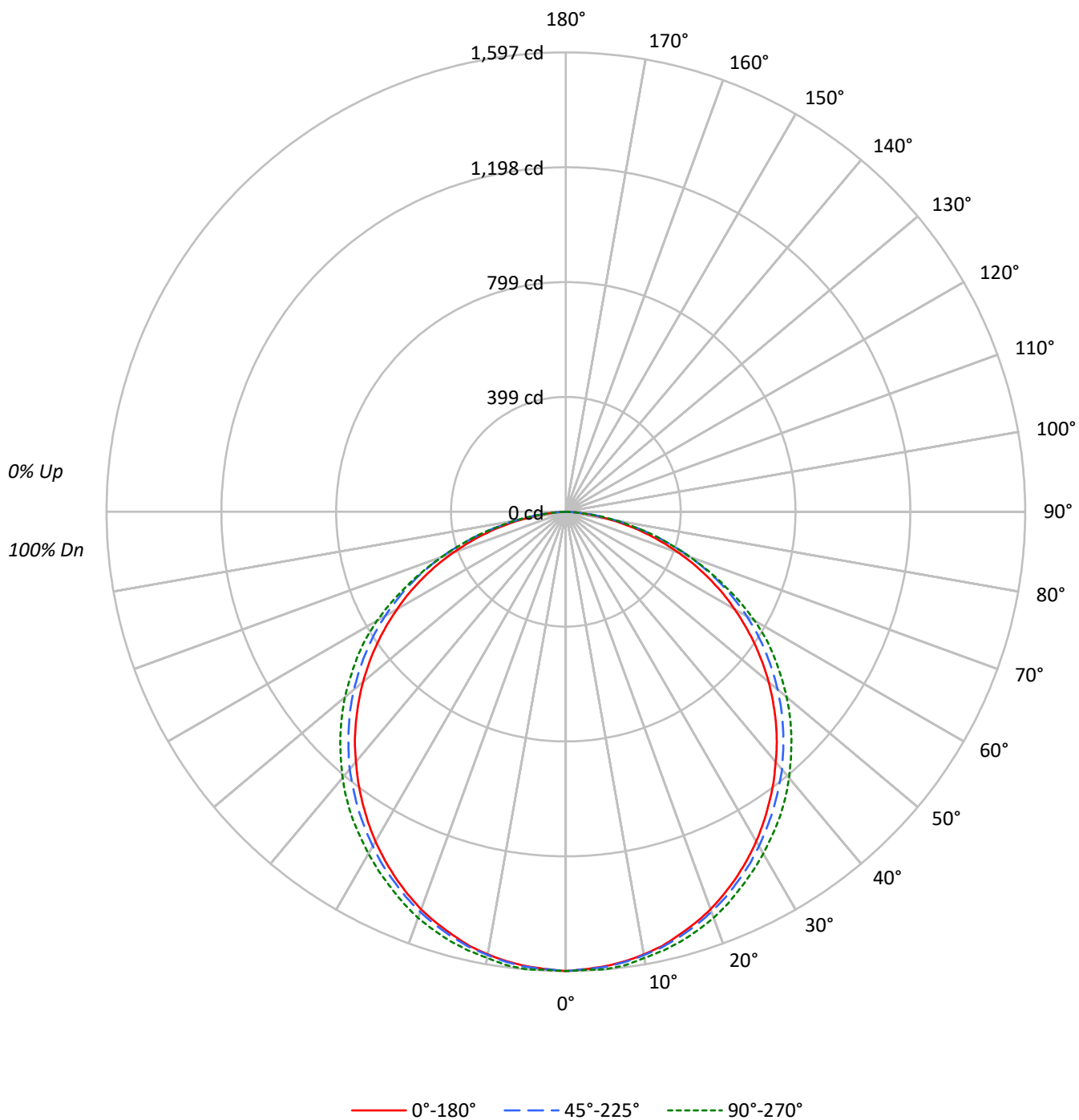
Lumens per Lamp: N/A
Luminaire Lumens: 4607.0 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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°	5380	5380	5380
5°	5364	5373	5400
10°	5346	5355	5388
15°	5313	5336	5393
20°	5275	5309	5387
25°	5215	5266	5357
30°	5150	5224	5341
35°	5073	5180	5332
40°	4992	5142	5311
45°	4921	5090	5285
50°	4826	5040	5255
55°	4710	4975	5207
60°	4565	4897	5108
65°	4388	4759	4857
70°	4117	4521	4521
75°	3699	4108	4126
80°	3048	3471	3471
85°	2111	2536	2219

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.3
10°-20°	433.1	9.4
20°-30°	655.5	14.2
30°-40°	791.4	17.2
40°-50°	826.8	17.9
50°-60°	757.4	16.4
60°-70°	584.0	12.7
70°-80°	329.5	7.2
80°-90°	78.0	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°	1239.9	26.9
0°-40°	2031.3	44.1
0°-60°	3615.6	78.5
0°-90°	4607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1586	1597	1588	1591	1597	151
15°	1523	1532	1530	1542	1546	430
25°	1403	1415	1416	1436	1441	646
35°	1233	1250	1259	1287	1296	772
45°	1033	1050	1068	1100	1109	796
55°	802	822	847	878	886	716
65°	550	568	597	617	609	544
75°	284	306	316	324	317	301
85°	55	62	66	70	57	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.6	1596.6	1596.6	1596.6	1596.6
2.5°	1591.2	1602.1	1591.2	1596.6	1593.9
5°	1585.7	1596.6	1588.4	1591.2	1596.6
7.5°	1576.2	1587.1	1578.9	1583.0	1589.8
10°	1562.5	1573.4	1565.2	1572.1	1574.8
12.5°	1546.1	1555.7	1550.2	1558.4	1562.5
15°	1522.9	1532.4	1529.7	1542.0	1546.1
17.5°	1498.3	1509.2	1506.5	1521.5	1525.6
20°	1471.0	1480.5	1480.5	1494.2	1502.4
22.5°	1438.2	1449.1	1450.5	1465.5	1473.7
25°	1402.7	1415.0	1416.4	1435.5	1440.9
27.5°	1364.4	1376.7	1382.2	1402.7	1408.2
30°	1323.5	1335.8	1342.6	1365.8	1372.6
32.5°	1279.8	1294.8	1301.6	1327.6	1334.4
35°	1233.3	1249.7	1259.3	1286.6	1296.2
37.5°	1185.5	1201.9	1214.2	1242.9	1253.8
40°	1135.0	1152.7	1169.1	1197.8	1207.4
42.5°	1085.8	1103.6	1118.6	1148.7	1158.2
45°	1032.6	1050.3	1068.1	1099.5	1109.0
47.5°	976.6	995.7	1016.2	1044.8	1057.1
50°	920.6	939.7	961.5	991.6	1002.5
52.5°	861.8	882.3	904.2	935.6	943.8
55°	801.7	822.2	846.8	878.2	886.4
57.5°	740.3	762.1	788.1	818.1	826.3
60°	677.4	699.3	726.6	755.3	758.0
62.5°	616.0	635.1	662.4	689.7	685.6
65°	550.4	568.2	596.9	617.3	609.2
67.5°	484.9	504.0	529.9	545.0	534.0
70°	417.9	438.4	458.9	469.8	458.9
72.5°	351.0	372.9	387.9	394.7	385.2
75°	284.1	305.9	315.5	323.7	316.9
77.5°	219.9	240.4	244.5	254.0	244.5
80°	157.1	176.2	178.9	188.5	178.9
82.5°	101.1	113.4	118.8	127.0	117.5
85°	54.6	61.5	65.6	69.7	57.4
87.5°	19.1	21.9	19.1	16.4	6.8
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	17.56	19.21	17.92	19.52	19.84	18.10	19.75	18.47	20.07	20.38
	3H	19.35	20.84	19.72	21.17	21.53	19.91	21.40	20.29	21.73	22.09
	4H	19.99	21.39	20.38	21.74	22.11	20.56	21.96	20.95	22.31	22.68
	6H	20.41	21.71	20.82	22.08	22.47	20.99	22.30	21.41	22.66	23.05
	8H	20.52	21.76	20.94	22.15	22.55	21.12	22.36	21.54	22.75	23.15
	12H	20.57	21.77	21.00	22.15	22.58	21.18	22.37	21.60	22.75	23.18
4H	2H	18.29	19.69	18.68	20.04	20.41	18.71	20.12	19.11	20.46	20.84
	3H	20.29	21.47	20.70	21.87	22.27	20.75	21.93	21.16	22.32	22.72
	4H	21.06	22.13	21.49	22.54	22.98	21.53	22.59	21.96	23.01	23.44
	6H	21.60	22.54	22.06	22.98	23.43	22.09	23.03	22.55	23.47	23.92
	8H	21.75	22.62	22.21	23.06	23.53	22.26	23.13	22.72	23.58	24.04
	12H	21.83	22.62	22.31	23.09	23.56	22.35	23.14	22.83	23.61	24.08
8H	4H	21.40	22.28	21.86	22.72	23.18	21.82	22.69	22.27	23.13	23.59
	6H	22.06	22.79	22.55	23.28	23.75	22.50	23.22	22.99	23.71	24.18
	8H	22.27	22.92	22.78	23.42	23.91	22.73	23.38	23.24	23.89	24.37
	12H	22.41	22.98	22.91	23.47	24.03	22.88	23.46	23.39	23.95	24.51
12H	4H	21.44	22.22	21.92	22.70	23.17	21.84	22.63	22.32	23.10	23.57
	6H	22.12	22.77	22.63	23.27	23.76	22.54	23.19	23.05	23.70	24.18
	8H	22.38	22.95	22.88	23.44	24.00	22.82	23.40	23.33	23.89	24.45