

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: P1584314

Luminaire Tested: 14CZSP-47-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584314
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-47-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

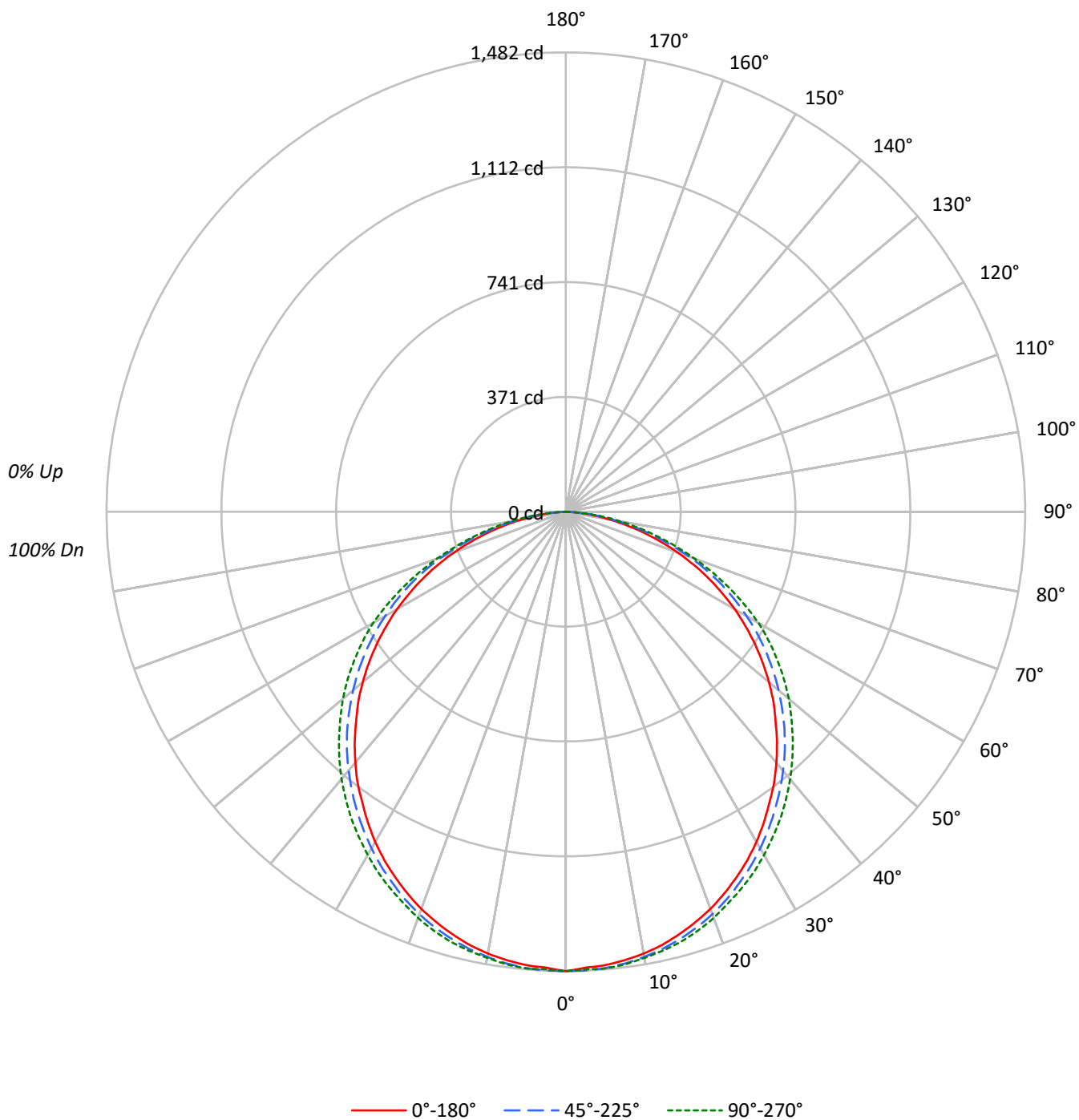
Lumens per Lamp: N/A
Luminaire Lumens: 4285.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	52		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	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°	4994	4994	4994
5°	4966	4999	5003
10°	4953	4989	5000
15°	4924	4975	5010
20°	4890	4955	5000
25°	4840	4917	4985
30°	4785	4879	4974
35°	4709	4836	4966
40°	4647	4797	4952
45°	4559	4755	4932
50°	4484	4698	4923
55°	4376	4632	4891
60°	4242	4539	4841
65°	4054	4416	4642
70°	3778	4169	4356
75°	3375	3761	3975
80°	2765	3171	3475
85°	1852	2316	2586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.3
10°-20°	402.4	9.4
20°-30°	609.4	14.2
30°-40°	735.9	17.2
40°-50°	769.0	17.9
50°-60°	704.7	16.4
60°-70°	544.0	12.7
70°-80°	306.0	7.1
80°-90°	73.2	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°	1152.2	26.9
0°-40°	1888.1	44.1
0°-60°	3361.8	78.5
0°-90°	4285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1468	1479	1478	1479	1479	139
15°	1412	1423	1426	1432	1436	398
25°	1302	1313	1323	1330	1341	600
35°	1145	1159	1176	1191	1207	717
45°	957	976	998	1018	1035	739
55°	745	764	788	813	832	666
65°	508	530	554	576	582	502
75°	259	283	289	301	305	275
85°	48	55	60	66	67	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.2	1482.2	1482.2	1482.2	1482.2
2.5°	1472.1	1483.4	1480.9	1484.7	1477.8
5°	1468.3	1479.0	1477.8	1479.0	1479.0
7.5°	1458.8	1470.2	1469.6	1471.5	1472.7
10°	1447.5	1458.2	1458.2	1460.1	1461.4
12.5°	1431.7	1443.1	1444.3	1447.5	1450.0
15°	1411.5	1422.9	1426.1	1431.7	1436.1
17.5°	1388.8	1400.8	1405.9	1411.5	1417.2
20°	1363.6	1374.3	1381.9	1386.3	1394.5
22.5°	1334.0	1346.0	1354.1	1358.6	1367.4
25°	1301.8	1313.2	1322.6	1329.6	1340.9
27.5°	1267.7	1279.1	1290.4	1298.6	1311.9
30°	1229.9	1241.9	1253.9	1266.5	1278.5
32.5°	1188.9	1202.8	1216.0	1229.9	1243.1
35°	1144.8	1159.3	1175.7	1191.4	1207.2
37.5°	1103.8	1117.0	1134.0	1151.1	1166.8
40°	1056.5	1071.0	1090.5	1109.4	1125.8
42.5°	1008.5	1024.3	1045.7	1064.0	1081.7
45°	956.8	975.7	997.8	1018.0	1035.0
47.5°	908.9	925.3	947.3	969.4	987.1
50°	855.3	873.5	896.2	919.6	939.1
52.5°	801.0	819.9	843.3	866.6	886.8
55°	744.9	764.4	788.4	813.0	832.5
57.5°	687.5	708.3	732.9	757.5	777.0
60°	629.5	650.3	673.6	700.7	718.4
62.5°	568.9	592.2	614.3	639.5	650.3
65°	508.4	530.4	553.8	575.8	582.2
67.5°	446.5	469.3	490.1	504.6	512.8
70°	383.5	408.1	423.2	437.1	442.1
72.5°	321.0	345.6	354.5	367.7	372.8
75°	259.2	283.2	288.9	300.9	305.3
77.5°	199.3	221.4	223.3	237.1	240.9
80°	142.5	160.2	163.4	176.6	179.1
82.5°	91.5	104.1	108.5	119.8	123.6
85°	47.9	54.9	59.9	65.6	66.9
87.5°	15.8	19.6	16.4	17.0	15.8
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	17.30	18.95	17.67	19.26	19.58	17.84	19.49	18.20	19.80	20.12
	3H	19.08	20.57	19.45	20.90	21.26	19.70	21.19	20.07	21.52	21.88
	4H	19.70	21.11	20.10	21.46	21.83	20.37	21.77	20.76	22.12	22.50
	6H	20.11	21.42	20.52	21.78	22.17	20.84	22.15	21.25	22.51	22.90
	8H	20.21	21.46	20.64	21.85	22.25	20.99	22.23	21.41	22.62	23.02
	12H	20.26	21.46	20.69	21.84	22.27	21.07	22.27	21.50	22.65	23.08
4H	2H	18.02	19.43	18.42	19.78	20.15	18.45	19.85	18.84	20.20	20.58
	3H	20.02	21.20	20.43	21.60	22.00	20.52	21.70	20.93	22.10	22.50
	4H	20.78	21.84	21.21	22.26	22.69	21.31	22.38	21.75	22.80	23.23
	6H	21.30	22.24	21.76	22.68	23.13	21.92	22.85	22.37	23.29	23.75
	8H	21.44	22.32	21.90	22.76	23.22	22.11	22.98	22.57	23.42	23.89
	12H	21.52	22.31	22.00	22.78	23.25	22.23	23.01	22.71	23.49	23.96
8H	4H	21.11	21.99	21.57	22.43	22.89	21.59	22.46	22.05	22.91	23.37
	6H	21.75	22.48	22.25	22.97	23.44	22.30	23.03	22.80	23.52	23.99
	8H	21.95	22.60	22.46	23.11	23.60	22.56	23.21	23.07	23.72	24.20
	12H	22.08	22.66	22.59	23.15	23.71	22.74	23.32	23.25	23.81	24.37
12H	4H	21.15	21.94	21.63	22.41	22.88	21.61	22.40	22.09	22.87	23.34
	6H	21.81	22.46	22.32	22.97	23.45	22.34	22.99	22.85	23.50	23.98
	8H	22.06	22.64	22.57	23.13	23.69	22.65	23.22	23.15	23.71	24.27