

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: P1584573

Luminaire Tested: 14CZSP-A-42-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584573
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-42-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

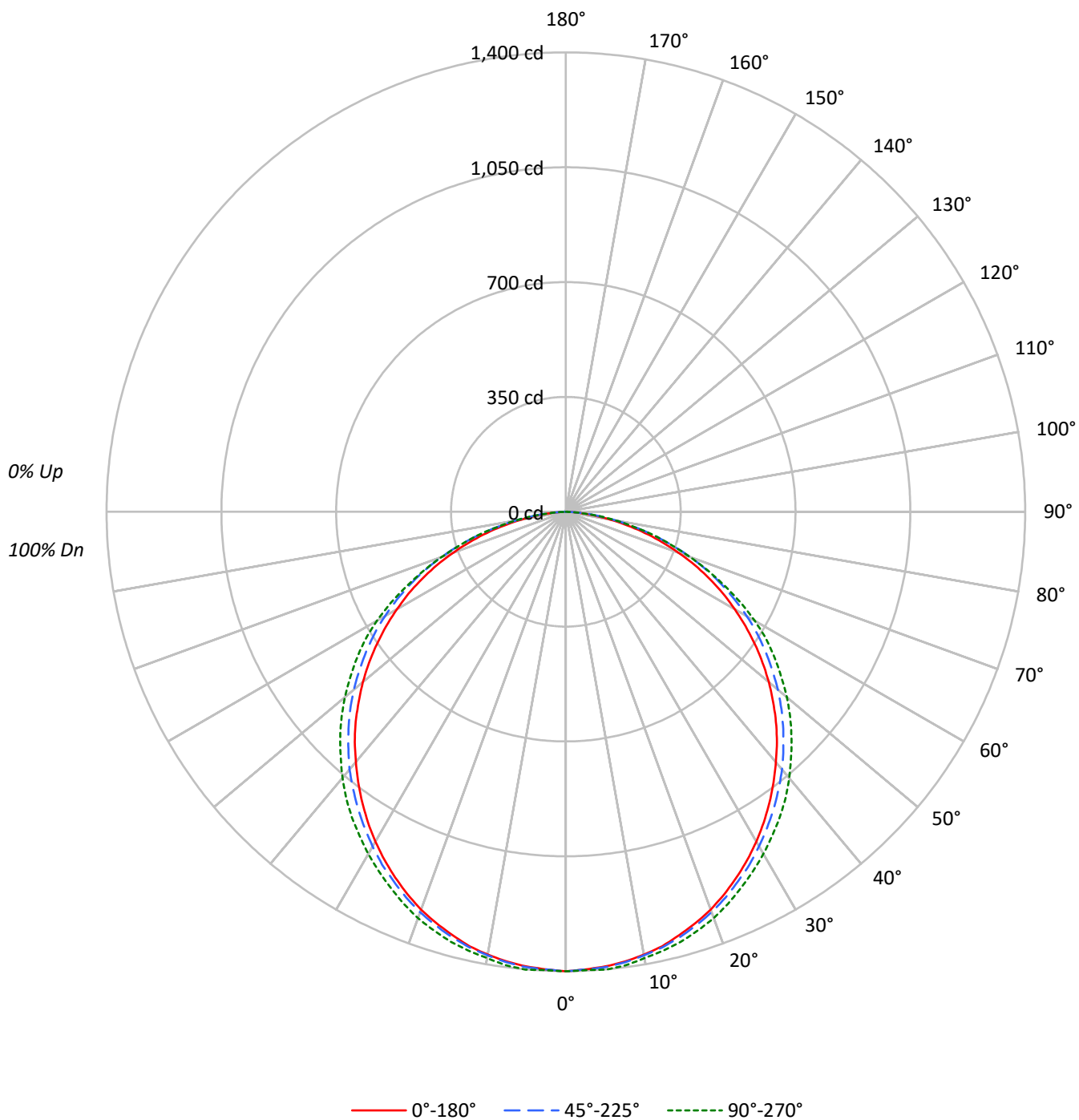
Lumens per Lamp: N/A
Luminaire Lumens: 4041.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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°	4719	4719	4719
5°	4705	4713	4737
10°	4689	4697	4726
15°	4660	4681	4731
20°	4627	4657	4725
25°	4575	4619	4699
30°	4517	4582	4685
35°	4450	4544	4677
40°	4379	4511	4658
45°	4316	4464	4636
50°	4233	4421	4609
55°	4131	4364	4568
60°	4004	4295	4481
65°	3849	4174	4260
70°	3612	3965	3965
75°	3244	3602	3618
80°	2674	3045	3045
85°	1852	2223	1945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.3
10°-20°	379.9	9.4
20°-30°	575.0	14.2
30°-40°	694.2	17.2
40°-50°	725.2	17.9
50°-60°	664.4	16.4
60°-70°	512.2	12.7
70°-80°	289.0	7.2
80°-90°	68.4	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°	1087.6	26.9
0°-40°	1781.8	44.1
0°-60°	3171.4	78.5
0°-90°	4041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1391	1400	1393	1396	1400	132
15°	1336	1344	1342	1353	1356	377
25°	1230	1241	1242	1259	1264	567
35°	1082	1096	1105	1128	1137	677
45°	906	921	937	964	973	698
55°	703	721	743	770	778	628
65°	483	498	524	542	534	477
75°	249	268	277	284	278	264
85°	48	54	58	61	50	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.5	1400.5	1400.5	1400.5	1400.5
2.5°	1395.7	1405.3	1395.7	1400.5	1398.1
5°	1390.9	1400.5	1393.3	1395.7	1400.5
7.5°	1382.5	1392.1	1384.9	1388.5	1394.5
10°	1370.5	1380.1	1372.9	1378.9	1381.3
12.5°	1356.2	1364.5	1359.7	1366.9	1370.5
15°	1335.8	1344.2	1341.8	1352.6	1356.2
17.5°	1314.2	1323.8	1321.4	1334.6	1338.2
20°	1290.3	1298.6	1298.6	1310.6	1317.8
22.5°	1261.5	1271.1	1272.3	1285.5	1292.7
25°	1230.4	1241.1	1242.3	1259.1	1263.9
27.5°	1196.8	1207.6	1212.4	1230.4	1235.2
30°	1160.9	1171.7	1177.6	1198.0	1204.0
32.5°	1122.5	1135.7	1141.7	1164.5	1170.5
35°	1081.8	1096.2	1104.6	1128.5	1136.9
37.5°	1039.9	1054.3	1065.0	1090.2	1099.8
40°	995.6	1011.1	1025.5	1050.7	1059.0
42.5°	952.4	968.0	981.2	1007.5	1015.9
45°	905.7	921.3	936.8	964.4	972.8
47.5°	856.6	873.4	891.3	916.5	927.3
50°	807.5	824.2	843.4	869.8	879.3
52.5°	755.9	773.9	793.1	820.6	827.8
55°	703.2	721.2	742.8	770.3	777.5
57.5°	649.3	668.5	691.3	717.6	724.8
60°	594.2	613.4	637.3	662.5	664.9
62.5°	540.3	557.1	581.0	605.0	601.4
65°	482.8	498.4	523.5	541.5	534.3
67.5°	425.3	442.1	464.8	478.0	468.4
70°	366.6	384.6	402.5	412.1	402.5
72.5°	307.9	327.1	340.2	346.2	337.8
75°	249.2	268.4	276.7	283.9	277.9
77.5°	192.9	210.9	214.4	222.8	214.4
80°	137.8	154.5	156.9	165.3	156.9
82.5°	88.7	99.4	104.2	111.4	103.0
85°	47.9	53.9	57.5	61.1	50.3
87.5°	16.8	19.2	16.8	14.4	6.0
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	17.10	18.75	17.47	19.07	19.38	17.65	19.30	18.01	19.61	19.93
	3H	18.89	20.38	19.27	20.71	21.07	19.45	20.95	19.83	21.27	21.63
	4H	19.53	20.94	19.93	21.28	21.66	20.10	21.51	20.50	21.85	22.23
	6H	19.95	21.26	20.37	21.62	22.01	20.54	21.84	20.95	22.21	22.60
	8H	20.06	21.31	20.49	21.70	22.10	20.66	21.91	21.09	22.30	22.69
	12H	20.12	21.31	20.55	21.69	22.12	20.72	21.91	21.15	22.29	22.72
4H	2H	17.83	19.24	18.23	19.58	19.96	18.26	19.66	18.65	20.01	20.38
	3H	19.84	21.02	20.25	21.41	21.81	20.29	21.47	20.70	21.87	22.27
	4H	20.60	21.67	21.04	22.09	22.52	21.07	22.14	21.50	22.55	22.99
	6H	21.15	22.08	21.60	22.52	22.98	21.64	22.57	22.09	23.01	23.47
	8H	21.29	22.17	21.75	22.61	23.07	21.80	22.68	22.26	23.12	23.58
	12H	21.38	22.16	21.86	22.64	23.11	21.90	22.68	22.38	23.16	23.62
8H	4H	20.95	21.82	21.41	22.26	22.73	21.36	22.23	21.82	22.67	23.14
	6H	21.61	22.33	22.10	22.82	23.29	22.04	22.77	22.53	23.25	23.73
	8H	21.81	22.46	22.32	22.97	23.45	22.27	22.92	22.78	23.43	23.92
	12H	21.95	22.52	22.46	23.01	23.57	22.42	23.00	22.93	23.49	24.05
12H	4H	20.98	21.77	21.46	22.24	22.71	21.39	22.17	21.86	22.65	23.11
	6H	21.66	22.31	22.17	22.82	23.30	22.08	22.73	22.59	23.24	23.72
	8H	21.92	22.49	22.43	22.98	23.54	22.37	22.94	22.87	23.43	23.99