

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: P1584579

Luminaire Tested: 14CZSP-A-42-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584579
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-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

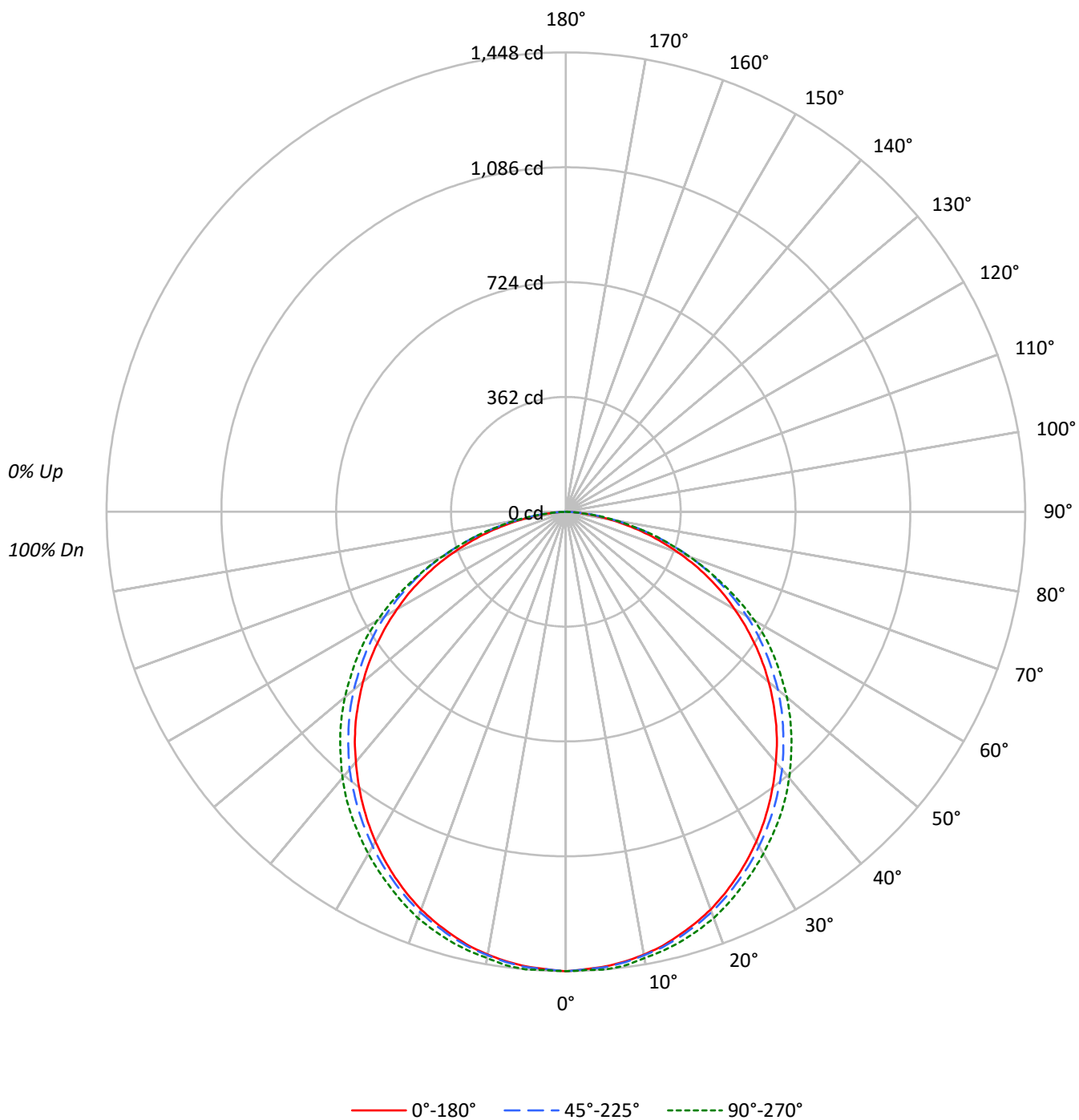
Lumens per Lamp: N/A
Luminaire Lumens: 4179.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4880	4880	4880
5°	4865	4874	4899
10°	4849	4858	4888
15°	4819	4841	4893
20°	4785	4816	4887
25°	4731	4777	4860
30°	4671	4739	4845
35°	4602	4699	4836
40°	4528	4665	4817
45°	4463	4617	4794
50°	4377	4572	4767
55°	4273	4512	4724
60°	4141	4442	4634
65°	3981	4317	4406
70°	3735	4101	4101
75°	3355	3726	3742
80°	2765	3149	3149
85°	1918	2300	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4794 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.3
10°-20°	392.9	9.4
20°-30°	594.6	14.2
30°-40°	717.9	17.2
40°-50°	750.0	17.9
50°-60°	687.1	16.4
60°-70°	529.7	12.7
70°-80°	298.9	7.2
80°-90°	70.7	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°	1124.7	26.9
0°-40°	1842.6	44.1
0°-60°	3279.7	78.5
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1438	1448	1441	1443	1448	137
15°	1381	1390	1388	1399	1402	390
25°	1272	1284	1285	1302	1307	586
35°	1119	1134	1142	1167	1176	700
45°	937	953	969	997	1006	722
55°	727	746	768	797	804	650
65°	499	515	541	560	553	494
75°	258	278	286	294	287	273
85°	50	56	60	63	52	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1443.4	1453.3	1443.4	1448.3	1445.8
5°	1438.4	1448.3	1440.9	1443.4	1448.3
7.5°	1429.7	1439.6	1432.2	1435.9	1442.1
10°	1417.3	1427.2	1419.8	1426.0	1428.5
12.5°	1402.5	1411.1	1406.2	1413.6	1417.3
15°	1381.4	1390.1	1387.6	1398.7	1402.5
17.5°	1359.1	1369.0	1366.5	1380.2	1383.9
20°	1334.3	1343.0	1343.0	1355.4	1362.8
22.5°	1304.6	1314.5	1315.7	1329.4	1336.8
25°	1272.4	1283.5	1284.8	1302.1	1307.1
27.5°	1237.7	1248.8	1253.8	1272.4	1277.3
30°	1200.5	1211.7	1217.9	1238.9	1245.1
32.5°	1160.9	1174.5	1180.7	1204.2	1210.4
35°	1118.8	1133.6	1142.3	1167.1	1175.7
37.5°	1075.4	1090.3	1101.4	1127.4	1137.3
40°	1029.5	1045.7	1060.5	1086.5	1095.2
42.5°	984.9	1001.1	1014.7	1041.9	1050.6
45°	936.6	952.7	968.8	997.3	1006.0
47.5°	885.8	903.2	921.8	947.8	958.9
50°	835.0	852.4	872.2	899.5	909.4
52.5°	781.8	800.3	820.2	848.7	856.1
55°	727.3	745.8	768.1	796.6	804.1
57.5°	671.5	691.3	714.9	742.1	749.6
60°	614.5	634.3	659.1	685.1	687.6
62.5°	558.8	576.1	600.9	625.7	621.9
65°	499.3	515.4	541.4	560.0	552.6
67.5°	439.8	457.2	480.7	494.3	484.4
70°	379.1	397.7	416.3	426.2	416.3
72.5°	318.4	338.2	351.9	358.1	349.4
75°	257.7	277.5	286.2	293.6	287.4
77.5°	199.5	218.1	221.8	230.4	221.8
80°	142.5	159.8	162.3	171.0	162.3
82.5°	91.7	102.8	107.8	115.2	106.5
85°	49.6	55.8	59.5	63.2	52.0
87.5°	17.3	19.8	17.3	14.9	6.2
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	17.22	18.87	17.58	19.18	19.50	17.76	19.41	18.13	19.73	20.04
	3H	19.01	20.50	19.38	20.83	21.19	19.57	21.06	19.95	21.39	21.75
	4H	19.65	21.05	20.04	21.40	21.78	20.22	21.62	20.61	21.97	22.35
	6H	20.07	21.38	20.48	21.74	22.13	20.66	21.96	21.07	22.32	22.71
	8H	20.18	21.43	20.60	21.81	22.21	20.78	22.02	21.20	22.41	22.81
	12H	20.23	21.43	20.66	21.81	22.24	20.84	22.03	21.27	22.41	22.84
4H	2H	17.95	19.35	18.34	19.70	20.08	18.37	19.78	18.77	20.13	20.50
	3H	19.95	21.13	20.36	21.53	21.93	20.41	21.59	20.82	21.99	22.39
	4H	20.72	21.79	21.15	22.20	22.64	21.19	22.26	21.62	22.67	23.10
	6H	21.27	22.20	21.72	22.64	23.09	21.76	22.69	22.21	23.13	23.58
	8H	21.41	22.28	21.87	22.73	23.19	21.92	22.79	22.38	23.24	23.70
	12H	21.50	22.28	21.98	22.76	23.22	22.01	22.80	22.49	23.27	23.74
8H	4H	21.06	21.94	21.52	22.38	22.84	21.48	22.35	21.94	22.79	23.26
	6H	21.72	22.45	22.22	22.94	23.41	22.16	22.88	22.65	23.37	23.85
	8H	21.93	22.58	22.44	23.09	23.57	22.39	23.04	22.90	23.55	24.03
	12H	22.07	22.64	22.57	23.13	23.69	22.54	23.12	23.05	23.61	24.17
12H	4H	21.10	21.89	21.58	22.36	22.83	21.50	22.29	21.98	22.76	23.23
	6H	21.78	22.43	22.29	22.94	23.42	22.20	22.85	22.71	23.36	23.84
	8H	22.04	22.61	22.54	23.10	23.66	22.48	23.06	22.99	23.55	24.11