

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: P1584593

Luminaire Tested: 14CZSP-A-43HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-43HE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

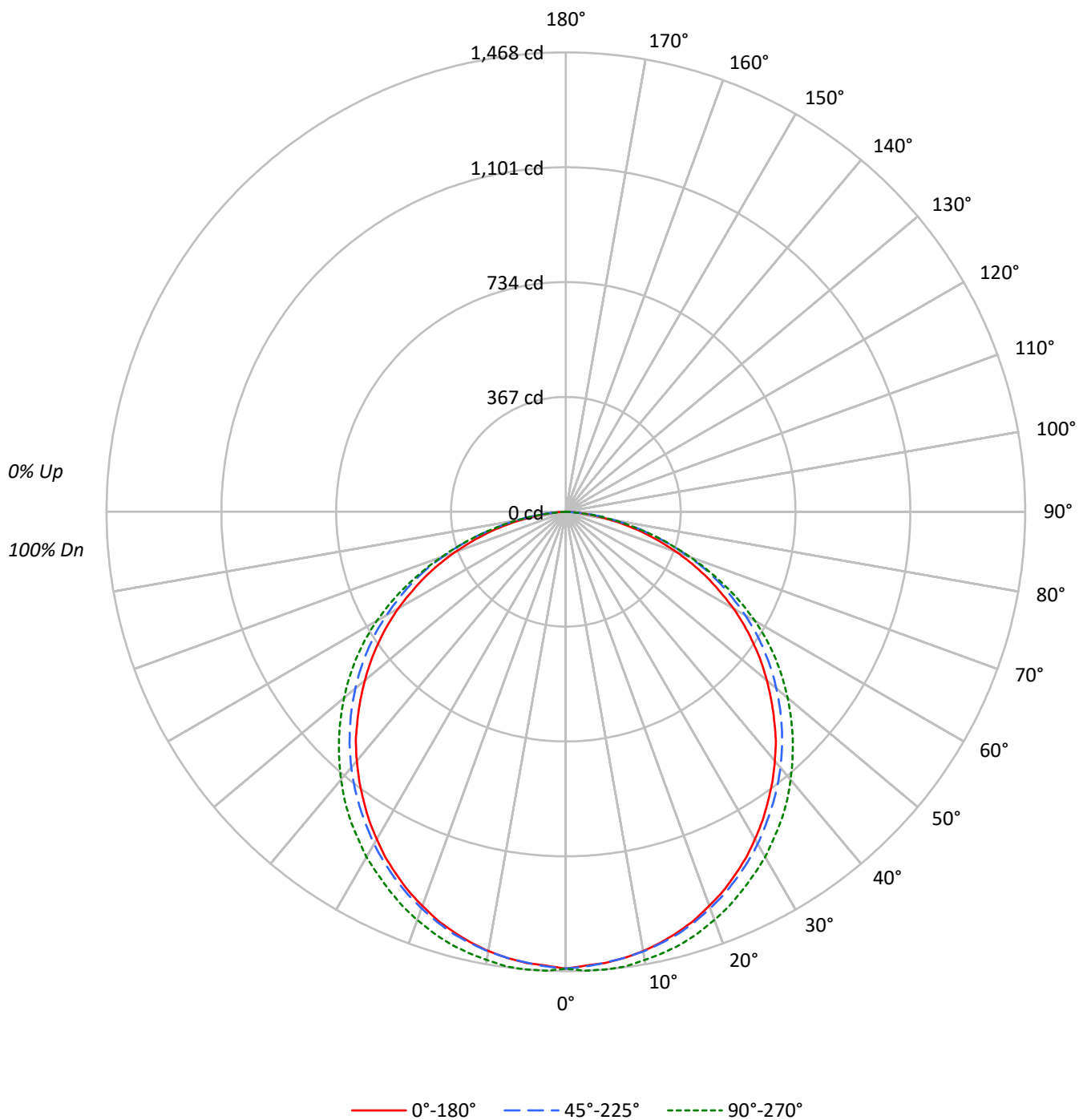
Lumens per Lamp: N/A
Luminaire Lumens: 4205.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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

TEST NUMBER: P1584593

CATALOG NUMBER: 14CZSP-A-43HE-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1584593

CATALOG NUMBER: 14CZSP-A-43HE-L830

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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	4919	4919	4919
5°	4896	4891	4966
10°	4877	4882	4976
15°	4848	4867	4987
20°	4806	4835	4978
25°	4758	4804	4962
30°	4701	4771	4958
35°	4637	4727	4942
40°	4571	4692	4916
45°	4487	4651	4886
50°	4396	4605	4849
55°	4296	4546	4805
60°	4169	4465	4706
65°	3979	4351	4494
70°	3710	4103	4171
75°	3311	3704	3740
80°	2693	3120	3095
85°	1755	2181	1701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4886 cd/sqm

TEST NUMBER: P1584593

CATALOG NUMBER: 14CZSP-A-43HE-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.3
10°-20°	396.2	9.4
20°-30°	600.1	14.3
30°-40°	724.9	17.2
40°-50°	757.2	18.0
50°-60°	693.4	16.5
60°-70°	532.8	12.7
70°-80°	296.6	7.1
80°-90°	65.7	1.6
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°	1134.5	27.0
0°-40°	1859.3	44.2
0°-60°	3309.9	78.7
0°-90°	4205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1447	1463	1446	1454	1468	137
15°	1390	1404	1395	1409	1430	392
25°	1280	1295	1292	1311	1335	590
35°	1127	1144	1149	1177	1201	705
45°	942	962	976	1005	1025	727
55°	731	755	774	801	818	654
65°	499	525	546	557	564	493
75°	254	280	284	284	287	269
85°	45	54	56	47	44	59
90°	0	0	0	0	0	

TEST NUMBER: P1584593

CATALOG NUMBER: 14CZSP-A-43HE-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.8	1459.8	1459.8	1459.8	1459.8
2.5°	1451.6	1465.3	1454.3	1458.4	1468.1
5°	1447.4	1462.6	1446.1	1454.3	1468.1
7.5°	1437.8	1451.6	1437.8	1447.4	1465.3
10°	1425.4	1440.6	1426.8	1436.4	1454.3
12.5°	1408.9	1421.3	1411.7	1425.4	1443.3
15°	1389.7	1403.5	1395.2	1408.9	1429.6
17.5°	1367.7	1380.1	1373.2	1391.1	1410.3
20°	1340.2	1354.0	1348.5	1366.3	1388.3
22.5°	1312.7	1326.5	1322.4	1340.2	1363.6
25°	1279.7	1294.9	1292.1	1311.4	1334.7
27.5°	1246.7	1261.9	1260.5	1282.5	1304.5
30°	1208.3	1223.4	1226.1	1249.5	1274.2
32.5°	1169.8	1186.3	1187.6	1213.8	1237.1
35°	1127.2	1143.7	1149.2	1176.6	1201.4
37.5°	1084.5	1101.0	1109.3	1135.4	1161.5
40°	1039.2	1057.1	1066.7	1094.2	1117.5
42.5°	993.8	1011.7	1022.7	1050.2	1072.2
45°	941.6	962.2	976.0	1004.8	1025.4
47.5°	890.7	912.7	927.8	955.3	976.0
50°	838.5	861.9	878.4	905.9	925.1
52.5°	786.3	811.0	827.5	853.6	872.9
55°	731.3	754.6	773.9	801.4	817.9
57.5°	676.3	699.7	720.3	745.0	760.1
60°	618.6	643.3	662.6	687.3	698.3
62.5°	558.1	584.2	603.4	622.7	632.3
65°	499.0	525.1	545.7	556.7	563.6
67.5°	438.5	464.6	483.9	489.4	493.5
70°	376.6	402.8	416.5	419.2	423.4
72.5°	314.8	340.9	351.9	351.9	353.3
75°	254.3	280.4	284.5	284.5	287.3
77.5°	195.2	218.6	221.3	221.3	221.3
80°	138.8	156.7	160.8	160.8	159.5
82.5°	88.0	100.3	107.2	101.7	99.0
85°	45.4	53.6	56.4	46.7	44.0
87.5°	13.7	16.5	13.7	8.2	6.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584593

CATALOG NUMBER: 14CZSP-A-43HE-L830

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	17.28	18.93	17.64	19.24	19.56	17.78	19.43	18.15	19.75	20.06
	3H	19.05	20.54	19.43	20.87	21.23	19.58	21.07	19.96	21.40	21.76
	4H	19.67	21.08	20.07	21.43	21.80	20.21	21.62	20.61	21.97	22.34
	6H	20.08	21.38	20.49	21.74	22.13	20.64	21.94	21.05	22.30	22.69
	8H	20.18	21.42	20.60	21.81	22.21	20.74	21.98	21.16	22.37	22.77
	12H	20.22	21.41	20.65	21.79	22.22	20.78	21.97	21.21	22.35	22.78
4H	2H	18.00	19.40	18.40	19.75	20.13	18.40	19.80	18.79	20.15	20.52
	3H	19.99	21.17	20.40	21.57	21.97	20.41	21.59	20.82	21.98	22.38
	4H	20.75	21.82	21.18	22.23	22.66	21.16	22.22	21.59	22.64	23.07
	6H	21.27	22.20	21.73	22.64	23.10	21.70	22.63	22.15	23.07	23.52
	8H	21.41	22.28	21.87	22.72	23.18	21.84	22.71	22.30	23.15	23.62
	12H	21.48	22.26	21.96	22.74	23.20	21.91	22.69	22.39	23.16	23.63
8H	4H	21.08	21.95	21.54	22.40	22.86	21.45	22.32	21.91	22.76	23.22
	6H	21.72	22.44	22.21	22.93	23.40	22.09	22.81	22.58	23.30	23.77
	8H	21.91	22.56	22.42	23.06	23.55	22.28	22.93	22.79	23.44	23.92
	12H	22.03	22.60	22.54	23.09	23.65	22.39	22.96	22.89	23.45	24.01
12H	4H	21.11	21.90	21.59	22.37	22.84	21.47	22.25	21.95	22.73	23.20
	6H	21.77	22.42	22.28	22.92	23.41	22.13	22.78	22.64	23.28	23.77
	8H	22.01	22.58	22.52	23.07	23.63	22.37	22.94	22.88	23.43	23.99