

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: P1584308

Luminaire Tested: 14CZSP-43HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584308
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-43HE-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

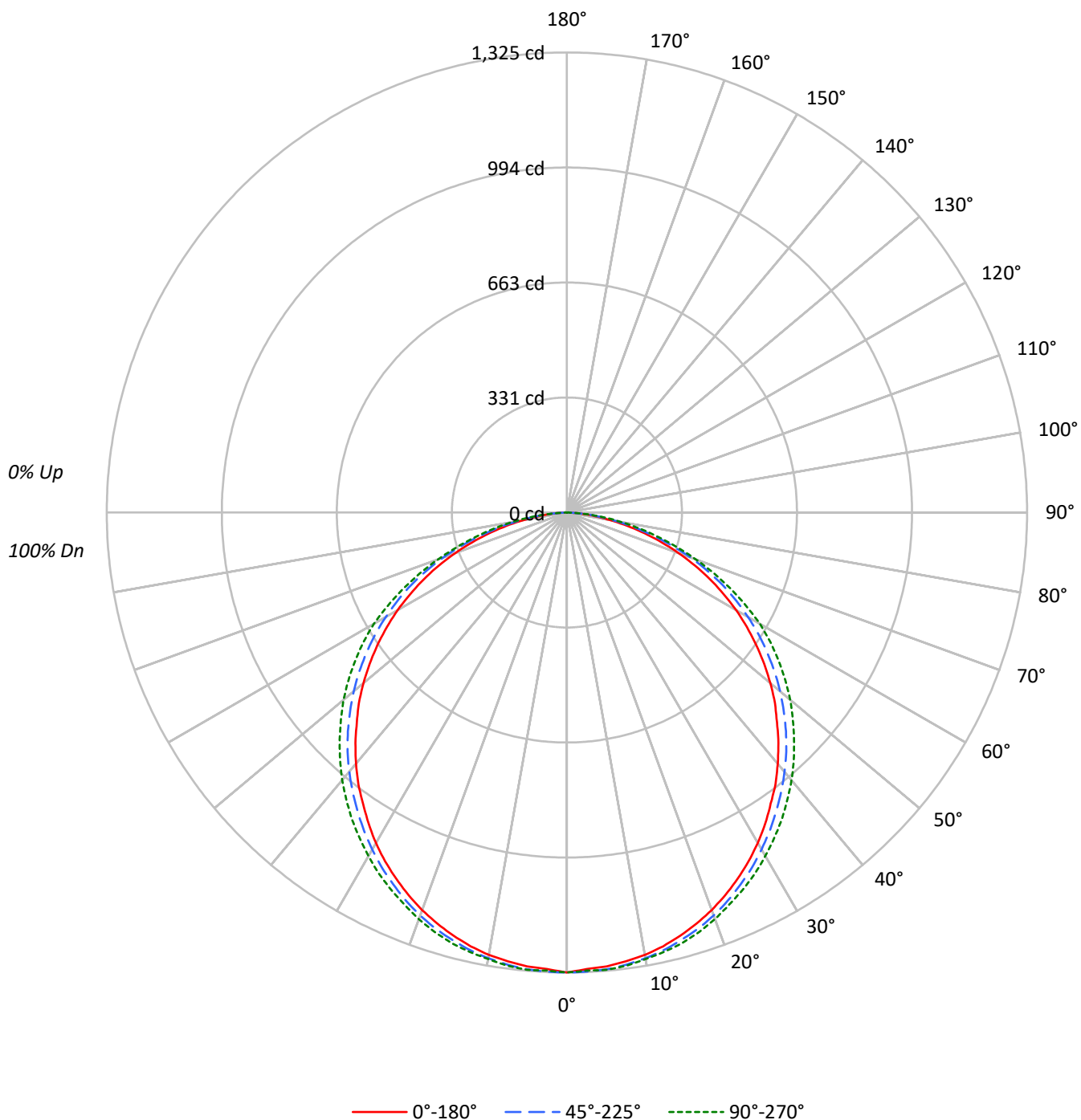
Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1584308

CATALOG NUMBER: 14CZSP-43HE-L945-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584308

CATALOG NUMBER: 14CZSP-43HE-L945-S

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°	4464	4464	4464
5°	4439	4468	4472
10°	4427	4460	4469
15°	4401	4446	4478
20°	4370	4429	4469
25°	4326	4395	4456
30°	4277	4360	4446
35°	4209	4322	4438
40°	4154	4287	4426
45°	4075	4250	4408
50°	4007	4199	4400
55°	3911	4140	4371
60°	3791	4058	4327
65°	3623	3947	4148
70°	3377	3727	3894
75°	3017	3362	3553
80°	2472	2833	3107
85°	1655	2072	2312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4408 cd/sqm

TEST NUMBER: P1584308

CATALOG NUMBER: 14CZSP-43HE-L945-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.3
10°-20°	359.7	9.4
20°-30°	544.7	14.2
30°-40°	657.7	17.2
40°-50°	687.4	17.9
50°-60°	629.9	16.4
60°-70°	486.2	12.7
70°-80°	273.5	7.1
80°-90°	65.4	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°	1029.8	26.9
0°-40°	1687.6	44.1
0°-60°	3004.8	78.5
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1312	1322	1321	1322	1322	125
15°	1262	1272	1275	1280	1284	356
25°	1164	1174	1182	1188	1198	536
35°	1023	1036	1051	1065	1079	641
45°	855	872	892	910	925	661
55°	666	683	705	727	744	595
65°	454	474	495	515	520	449
75°	232	253	258	269	273	246
85°	43	49	54	59	60	55
90°	0	0	0	0	0	

TEST NUMBER: P1584308

CATALOG NUMBER: 14CZSP-43HE-L945-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.8	1324.8	1324.8	1324.8	1324.8
2.5°	1315.8	1325.9	1323.7	1327.1	1320.9
5°	1312.4	1322.0	1320.9	1322.0	1322.0
7.5°	1303.9	1314.1	1313.5	1315.2	1316.3
10°	1293.8	1303.4	1303.4	1305.1	1306.2
12.5°	1279.7	1289.8	1291.0	1293.8	1296.0
15°	1261.7	1271.8	1274.6	1279.7	1283.6
17.5°	1241.4	1252.1	1256.6	1261.7	1266.7
20°	1218.8	1228.4	1235.2	1239.1	1246.4
22.5°	1192.3	1203.0	1210.4	1214.3	1222.2
25°	1163.6	1173.7	1182.2	1188.4	1198.5
27.5°	1133.1	1143.3	1153.4	1160.8	1172.6
30°	1099.3	1110.0	1120.7	1132.0	1142.7
32.5°	1062.7	1075.1	1086.9	1099.3	1111.1
35°	1023.2	1036.2	1050.8	1064.9	1079.0
37.5°	986.6	998.4	1013.6	1028.8	1042.9
40°	944.3	957.2	974.7	991.6	1006.3
42.5°	901.4	915.5	934.7	951.0	966.8
45°	855.2	872.1	891.8	909.9	925.1
47.5°	812.4	827.0	846.7	866.5	882.3
50°	764.4	780.8	801.1	821.9	839.4
52.5°	716.0	732.9	753.7	774.6	792.6
55°	665.8	683.3	704.7	726.7	744.1
57.5°	614.5	633.1	655.1	677.1	694.5
60°	562.6	581.2	602.1	626.3	642.1
62.5°	508.5	529.4	549.1	571.6	581.2
65°	454.4	474.1	495.0	514.7	520.3
67.5°	399.1	419.4	438.0	451.0	458.3
70°	342.8	364.7	378.3	390.7	395.2
72.5°	286.9	308.9	316.8	328.7	333.2
75°	231.7	253.1	258.2	268.9	272.9
77.5°	178.1	197.9	199.6	212.0	215.4
80°	127.4	143.2	146.0	157.8	160.1
82.5°	81.7	93.0	97.0	107.1	110.5
85°	42.8	49.0	53.6	58.6	59.8
87.5°	14.1	17.5	14.7	15.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584308

CATALOG NUMBER: 14CZSP-43HE-L945-S

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	16.91	18.56	17.28	18.87	19.19	17.45	19.10	17.82	19.41	19.73
	3H	18.69	20.18	19.06	20.51	20.87	19.31	20.80	19.68	21.13	21.49
	4H	19.31	20.72	19.71	21.07	21.44	19.98	21.38	20.37	21.73	22.11
	6H	19.72	21.03	20.13	21.39	21.78	20.45	21.76	20.86	22.12	22.51
	8H	19.82	21.07	20.25	21.46	21.86	20.60	21.85	21.02	22.23	22.63
	12H	19.87	21.07	20.30	21.45	21.88	20.68	21.88	21.11	22.26	22.69
4H	2H	17.63	19.04	18.03	19.39	19.76	18.06	19.46	18.45	19.81	20.19
	3H	19.63	20.81	20.04	21.21	21.61	20.13	21.31	20.54	21.71	22.11
	4H	20.39	21.45	20.82	21.87	22.30	20.92	21.99	21.36	22.41	22.84
	6H	20.91	21.85	21.37	22.29	22.74	21.53	22.46	21.98	22.90	23.36
	8H	21.05	21.93	21.51	22.37	22.83	21.72	22.59	22.18	23.03	23.50
	12H	21.13	21.92	21.61	22.39	22.86	21.84	22.63	22.32	23.10	23.57
8H	4H	20.72	21.60	21.18	22.04	22.50	21.20	22.07	21.66	22.52	22.98
	6H	21.36	22.09	21.86	22.58	23.05	21.91	22.64	22.41	23.13	23.60
	8H	21.56	22.21	22.07	22.72	23.21	22.17	22.82	22.68	23.33	23.81
	12H	21.69	22.27	22.20	22.76	23.32	22.35	22.93	22.86	23.42	23.98
12H	4H	20.76	21.55	21.24	22.02	22.49	21.22	22.01	21.70	22.48	22.95
	6H	21.42	22.07	21.93	22.58	23.06	21.95	22.60	22.46	23.11	23.59
	8H	21.67	22.25	22.18	22.74	23.30	22.26	22.83	22.76	23.32	23.88