

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: P1584296

Luminaire Tested: 14CZSP-43HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584296
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-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

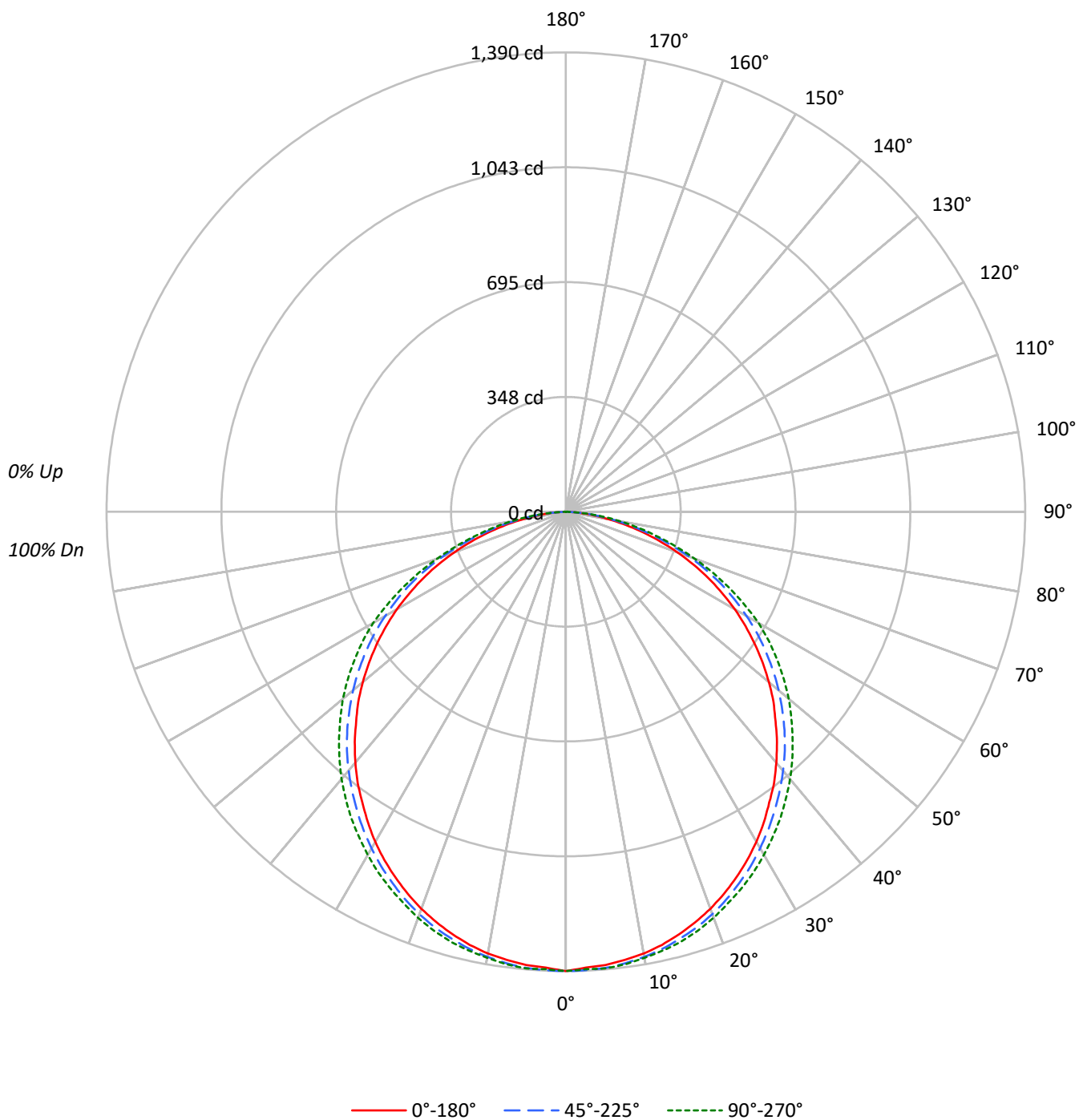
Lumens per Lamp: N/A
Luminaire Lumens: 4018.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584296

CATALOG NUMBER: 14CZSP-43HE-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584296

CATALOG NUMBER: 14CZSP-43HE-L840-S

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		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		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°	4683	4683	4683
5°	4657	4687	4691
10°	4644	4679	4689
15°	4617	4665	4698
20°	4585	4647	4689
25°	4538	4611	4675
30°	4487	4574	4664
35°	4415	4535	4656
40°	4357	4498	4644
45°	4275	4458	4625
50°	4204	4405	4616
55°	4103	4343	4586
60°	3977	4256	4539
65°	3801	4140	4353
70°	3543	3909	4085
75°	3165	3527	3726
80°	2594	2973	3260
85°	1736	2173	2424

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4625 cd/sqm

TEST NUMBER: P1584296

CATALOG NUMBER: 14CZSP-43HE-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.3
10°-20°	377.4	9.4
20°-30°	571.4	14.2
30°-40°	690.0	17.2
40°-50°	721.1	17.9
50°-60°	660.8	16.4
60°-70°	510.1	12.7
70°-80°	286.9	7.1
80°-90°	68.7	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°	1080.4	26.9
0°-40°	1770.4	44.1
0°-60°	3152.3	78.5
0°-90°	4018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1377	1387	1386	1387	1387	131
15°	1324	1334	1337	1342	1347	373
25°	1221	1231	1240	1247	1257	563
35°	1073	1087	1102	1117	1132	673
45°	897	915	936	954	970	693
55°	698	717	739	762	781	624
65°	477	497	519	540	546	471
75°	243	266	271	282	286	258
85°	45	52	56	62	63	58
90°	0	0	0	0	0	

TEST NUMBER: P1584296

CATALOG NUMBER: 14CZSP-43HE-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1380.4	1391.0	1388.6	1392.2	1385.7
5°	1376.8	1386.9	1385.7	1386.9	1386.9
7.5°	1367.9	1378.6	1378.0	1379.8	1381.0
10°	1357.3	1367.4	1367.4	1369.1	1370.3
12.5°	1342.5	1353.2	1354.3	1357.3	1359.7
15°	1323.6	1334.2	1337.2	1342.5	1346.7
17.5°	1302.3	1313.5	1318.3	1323.6	1328.9
20°	1278.6	1288.7	1295.8	1299.9	1307.6
22.5°	1250.8	1262.1	1269.8	1273.9	1282.2
25°	1220.7	1231.3	1240.2	1246.7	1257.4
27.5°	1188.7	1199.4	1210.0	1217.7	1230.1
30°	1153.3	1164.5	1175.7	1187.6	1198.8
32.5°	1114.8	1127.8	1140.3	1153.3	1165.7
35°	1073.4	1087.0	1102.4	1117.2	1132.0
37.5°	1035.0	1047.4	1063.4	1079.3	1094.1
40°	990.6	1004.2	1022.6	1040.3	1055.7
42.5°	945.7	960.5	980.6	997.7	1014.3
45°	897.2	914.9	935.6	954.5	970.5
47.5°	852.2	867.6	888.3	909.0	925.6
50°	802.0	819.1	840.4	862.3	880.6
52.5°	751.1	768.8	790.7	812.6	831.5
55°	698.5	716.8	739.3	762.3	780.7
57.5°	644.6	664.2	687.2	710.3	728.6
60°	590.2	609.8	631.6	657.1	673.6
62.5°	533.5	555.3	576.0	599.7	609.8
65°	476.7	497.4	519.3	540.0	545.9
67.5°	418.7	440.0	459.5	473.1	480.8
70°	359.6	382.6	396.8	409.9	414.6
72.5°	301.0	324.1	332.4	344.8	349.5
75°	243.1	265.5	270.9	282.1	286.2
77.5°	186.9	207.6	209.4	222.4	225.9
80°	133.7	150.2	153.2	165.6	168.0
82.5°	85.8	97.6	101.7	112.4	115.9
85°	44.9	51.5	56.2	61.5	62.7
87.5°	14.8	18.3	15.4	16.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584296

CATALOG NUMBER: 14CZSP-43HE-L840-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	17.08	18.73	17.44	19.04	19.36	17.62	19.27	17.98	19.58	19.90
	3H	18.85	20.35	19.23	20.67	21.03	19.47	20.97	19.85	21.29	21.65
	4H	19.48	20.89	19.88	21.23	21.61	20.14	21.55	20.54	21.90	22.27
	6H	19.89	21.19	20.30	21.56	21.95	20.62	21.92	21.03	22.29	22.68
	8H	19.99	21.24	20.41	21.63	22.02	20.76	22.01	21.19	22.40	22.80
	12H	20.04	21.24	20.47	21.62	22.05	20.85	22.04	21.28	22.42	22.85
4H	2H	17.80	19.21	18.20	19.56	19.93	18.22	19.63	18.62	19.98	20.35
	3H	19.80	20.98	20.20	21.37	21.77	20.29	21.48	20.70	21.87	22.27
	4H	20.55	21.62	20.98	22.03	22.47	21.09	22.16	21.52	22.57	23.01
	6H	21.08	22.01	21.53	22.45	22.91	21.69	22.63	22.15	23.07	23.52
	8H	21.22	22.09	21.68	22.54	23.00	21.88	22.76	22.34	23.20	23.67
	12H	21.30	22.08	21.78	22.56	23.03	22.01	22.79	22.49	23.27	23.73
8H	4H	20.89	21.76	21.35	22.21	22.67	21.37	22.24	21.83	22.68	23.15
	6H	21.53	22.26	22.02	22.74	23.22	22.08	22.81	22.57	23.29	23.77
	8H	21.73	22.38	22.24	22.89	23.37	22.34	22.99	22.85	23.49	23.98
	12H	21.86	22.43	22.37	22.92	23.48	22.52	23.09	23.02	23.58	24.14
12H	4H	20.93	21.71	21.41	22.19	22.66	21.39	22.18	21.87	22.65	23.12
	6H	21.59	22.24	22.09	22.74	23.23	22.12	22.77	22.62	23.27	23.76
	8H	21.84	22.41	22.34	22.90	23.46	22.42	23.00	22.93	23.49	24.05