

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: P1584297

Luminaire Tested: 14CZSP-43HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584297
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-43HE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

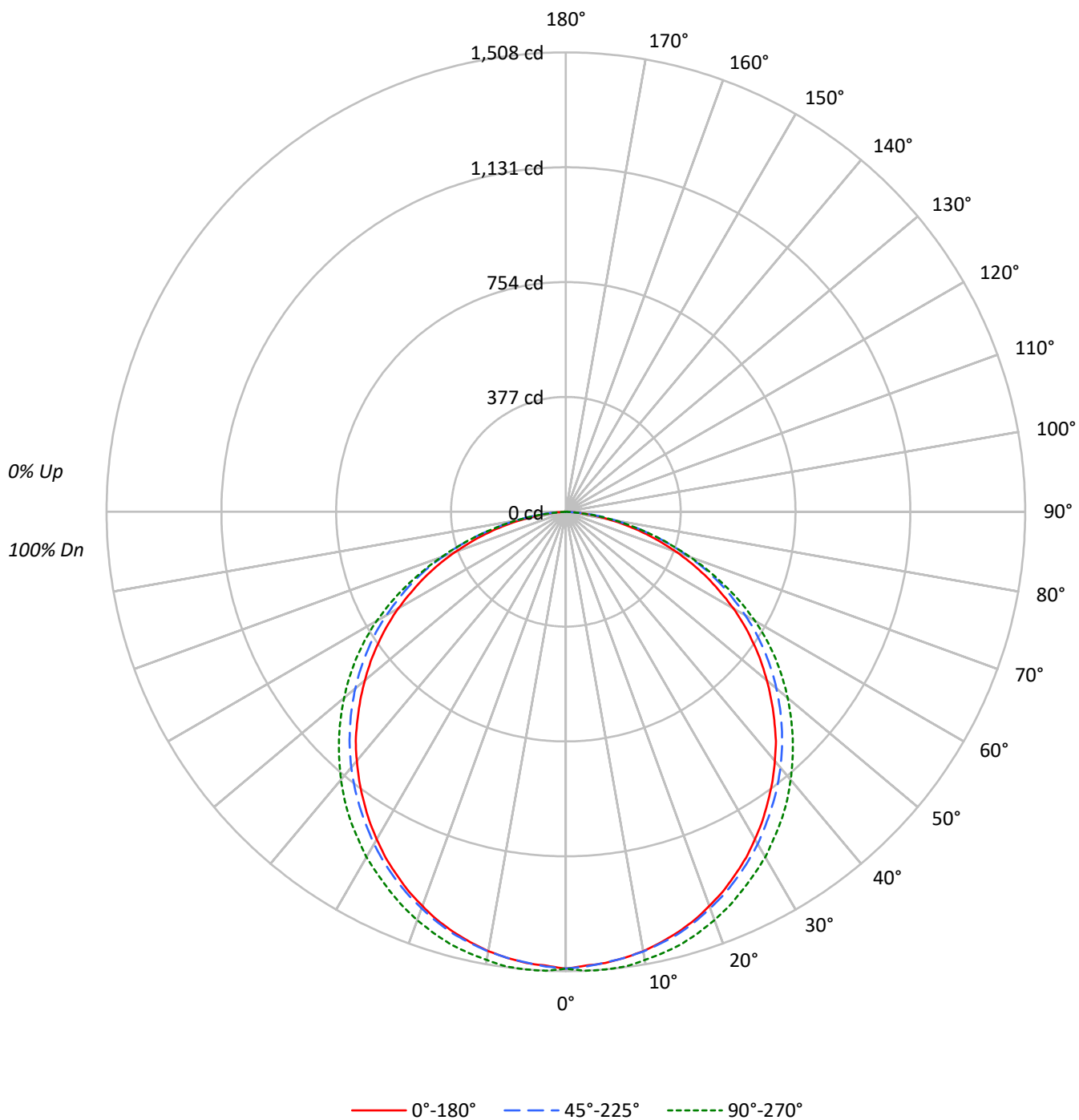
Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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°	5053	5053	5053
5°	5030	5025	5101
10°	5011	5015	5112
15°	4980	5000	5123
20°	4937	4967	5114
25°	4888	4935	5098
30°	4830	4901	5094
35°	4763	4856	5077
40°	4696	4821	5050
45°	4609	4778	5020
50°	4516	4731	4982
55°	4414	4671	4936
60°	4283	4587	4835
65°	4087	4470	4616
70°	3812	4216	4286
75°	3402	3805	3842
80°	2767	3206	3178
85°	1802	2239	1748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	3.3
10°-20°	407.0	9.4
20°-30°	616.5	14.3
30°-40°	744.7	17.2
40°-50°	777.9	18.0
50°-60°	712.3	16.5
60°-70°	547.3	12.7
70°-80°	304.8	7.1
80°-90°	67.5	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°	1165.5	27.0
0°-40°	1910.2	44.2
0°-60°	3400.4	78.7
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1487	1503	1486	1494	1508	141
15°	1428	1442	1433	1448	1469	403
25°	1315	1330	1327	1347	1371	606
35°	1158	1175	1181	1209	1234	725
45°	967	988	1003	1032	1054	747
55°	751	775	795	823	840	671
65°	513	540	561	572	579	507
75°	261	288	292	292	295	277
85°	47	55	58	48	45	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.7	1499.7	1499.7	1499.7	1499.7
2.5°	1491.3	1505.4	1494.1	1498.3	1508.2
5°	1487.0	1502.6	1485.6	1494.1	1508.2
7.5°	1477.1	1491.3	1477.1	1487.0	1505.4
10°	1464.4	1480.0	1465.8	1475.7	1494.1
12.5°	1447.5	1460.2	1450.3	1464.4	1482.8
15°	1427.7	1441.8	1433.4	1447.5	1468.7
17.5°	1405.1	1417.8	1410.8	1429.1	1448.9
20°	1376.9	1391.0	1385.3	1403.7	1426.3
22.5°	1348.6	1362.8	1358.5	1376.9	1400.9
25°	1314.7	1330.3	1327.4	1347.2	1371.2
27.5°	1280.8	1296.4	1295.0	1317.6	1340.2
30°	1241.3	1256.8	1259.7	1283.7	1309.1
32.5°	1201.8	1218.7	1220.1	1247.0	1271.0
35°	1158.0	1174.9	1180.6	1208.8	1234.2
37.5°	1114.2	1131.2	1139.6	1166.5	1193.3
40°	1067.6	1086.0	1095.9	1124.1	1148.1
42.5°	1021.0	1039.4	1050.7	1078.9	1101.5
45°	967.3	988.5	1002.6	1032.3	1053.5
47.5°	915.1	937.7	953.2	981.5	1002.6
50°	861.4	885.4	902.4	930.6	950.4
52.5°	807.8	833.2	850.1	877.0	896.7
55°	751.3	775.3	795.1	823.3	840.2
57.5°	694.8	718.8	740.0	765.4	780.9
60°	635.5	660.9	680.7	706.1	717.4
62.5°	573.3	600.2	619.9	639.7	649.6
65°	512.6	539.5	560.6	571.9	579.0
67.5°	450.5	477.3	497.1	502.7	507.0
70°	386.9	413.8	427.9	430.7	435.0
72.5°	323.4	350.2	361.5	361.5	362.9
75°	261.3	288.1	292.3	292.3	295.1
77.5°	200.5	224.5	227.4	227.4	227.4
80°	142.6	161.0	165.2	165.2	163.8
82.5°	90.4	103.1	110.1	104.5	101.7
85°	46.6	55.1	57.9	48.0	45.2
87.5°	14.1	16.9	14.1	8.5	7.1
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	17.37	19.02	17.74	19.33	19.65	17.88	19.53	18.24	19.84	20.15
	3H	19.14	20.63	19.52	20.96	21.32	19.68	21.17	20.05	21.49	21.85
	4H	19.77	21.17	20.17	21.52	21.89	20.31	21.71	20.71	22.06	22.43
	6H	20.17	21.47	20.58	21.84	22.23	20.73	22.03	21.14	22.39	22.79
	8H	20.27	21.51	20.69	21.90	22.30	20.83	22.08	21.26	22.47	22.86
	12H	20.31	21.51	20.74	21.89	22.32	20.87	22.06	21.30	22.45	22.87
4H	2H	18.09	19.50	18.49	19.85	20.22	18.49	19.89	18.89	20.24	20.62
	3H	20.09	21.26	20.50	21.66	22.06	20.50	21.68	20.91	22.08	22.48
	4H	20.84	21.91	21.28	22.32	22.76	21.25	22.32	21.68	22.73	23.17
	6H	21.37	22.30	21.82	22.74	23.19	21.79	22.72	22.25	23.16	23.62
	8H	21.50	22.37	21.96	22.81	23.28	21.93	22.80	22.39	23.25	23.71
	12H	21.57	22.35	22.05	22.83	23.30	22.00	22.78	22.48	23.26	23.73
8H	4H	21.18	22.05	21.64	22.49	22.95	21.54	22.41	22.00	22.85	23.32
	6H	21.81	22.53	22.30	23.02	23.50	22.18	22.90	22.67	23.39	23.87
	8H	22.00	22.65	22.51	23.16	23.64	22.38	23.02	22.88	23.53	24.01
	12H	22.13	22.70	22.63	23.19	23.75	22.48	23.05	22.99	23.54	24.10
12H	4H	21.21	21.99	21.69	22.47	22.93	21.56	22.35	22.04	22.82	23.29
	6H	21.86	22.51	22.37	23.02	23.50	22.22	22.87	22.73	23.38	23.86
	8H	22.10	22.68	22.61	23.17	23.73	22.46	23.04	22.97	23.53	24.09