

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: P1584557

Luminaire Tested: 14CZSP-A-37HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584557
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-37HE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

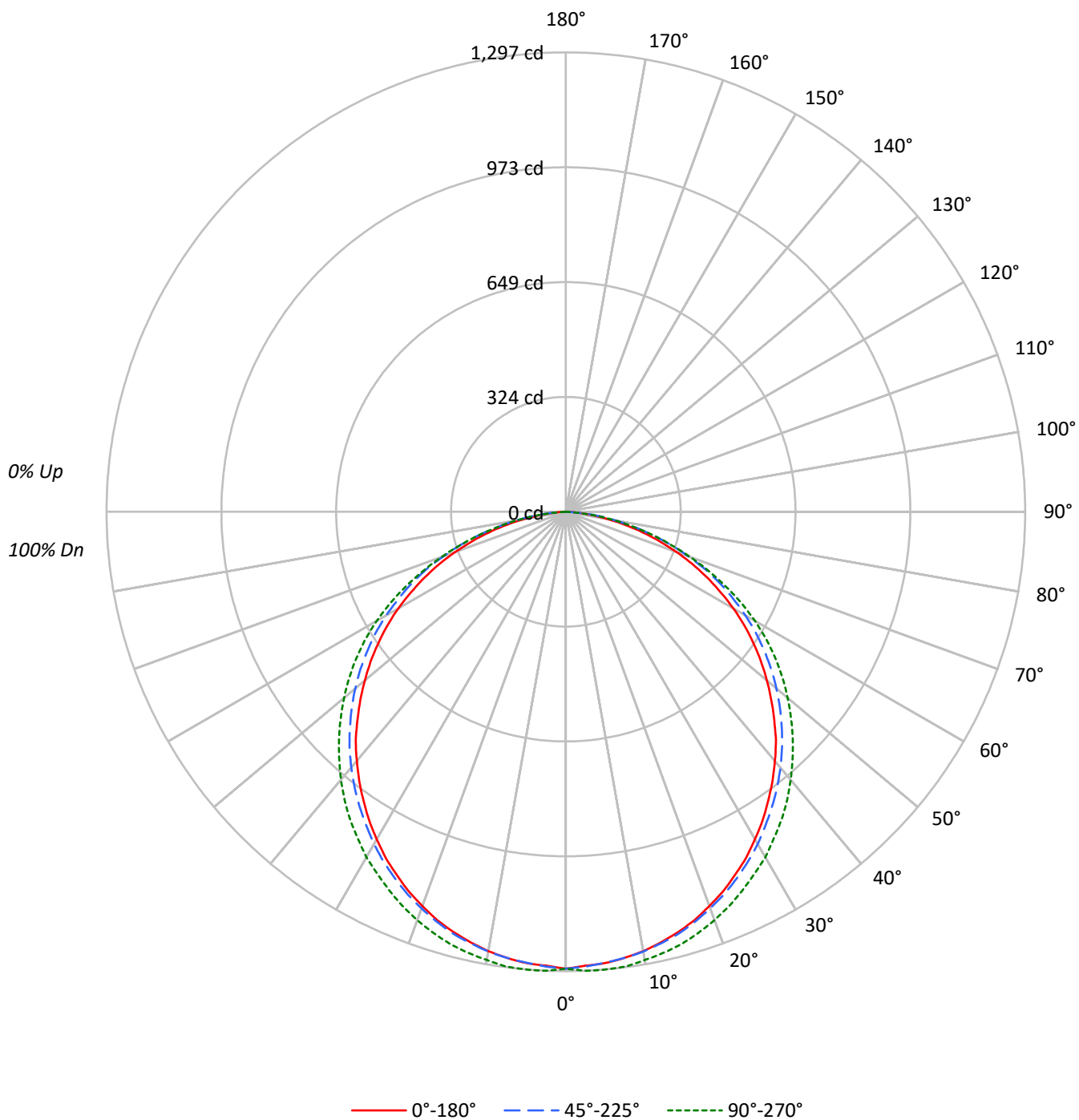
Lumens per Lamp: N/A
Luminaire Lumens: 3716.0 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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		94	91	88		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		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°	4347	4347	4347
5°	4326	4322	4388
10°	4310	4314	4397
15°	4284	4301	4407
20°	4247	4273	4399
25°	4205	4245	4385
30°	4155	4216	4381
35°	4097	4177	4367
40°	4039	4146	4344
45°	3965	4110	4318
50°	3884	4069	4285
55°	3796	4018	4246
60°	3684	3946	4159
65°	3515	3845	3971
70°	3279	3627	3686
75°	2925	3274	3306
80°	2381	2757	2734
85°	1550	1925	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.3
10°-20°	350.1	9.4
20°-30°	530.3	14.3
30°-40°	640.6	17.2
40°-50°	669.1	18.0
50°-60°	612.7	16.5
60°-70°	470.8	12.7
70°-80°	262.2	7.1
80°-90°	58.1	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°	1002.6	27.0
0°-40°	1643.1	44.2
0°-60°	2925.0	78.7
0°-90°	3716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1279	1292	1278	1285	1297	121
15°	1228	1240	1233	1245	1263	346
25°	1131	1144	1142	1159	1180	521
35°	996	1011	1016	1040	1062	623
45°	832	850	862	888	906	642
55°	646	667	684	708	723	578
65°	441	464	482	492	498	436
75°	225	248	252	252	254	238
85°	40	47	50	41	39	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.0	1290.0	1290.0	1290.0	1290.0
2.5°	1282.8	1294.9	1285.2	1288.8	1297.3
5°	1279.1	1292.5	1277.9	1285.2	1297.3
7.5°	1270.6	1282.8	1270.6	1279.1	1294.9
10°	1259.7	1273.0	1260.9	1269.4	1285.2
12.5°	1245.1	1256.0	1247.5	1259.7	1275.5
15°	1228.1	1240.2	1233.0	1245.1	1263.3
17.5°	1208.7	1219.6	1213.5	1229.3	1246.3
20°	1184.4	1196.5	1191.7	1207.4	1226.9
22.5°	1160.1	1172.2	1168.6	1184.4	1205.0
25°	1130.9	1144.3	1141.9	1158.9	1179.5
27.5°	1101.8	1115.1	1113.9	1133.3	1152.8
30°	1067.8	1081.1	1083.5	1104.2	1126.1
32.5°	1033.7	1048.3	1049.5	1072.6	1093.3
35°	996.1	1010.7	1015.5	1039.8	1061.7
37.5°	958.4	973.0	980.3	1003.4	1026.5
40°	918.3	934.1	942.6	966.9	987.6
42.5°	878.3	894.0	903.8	928.1	947.5
45°	832.1	850.3	862.5	888.0	906.2
47.5°	787.1	806.6	819.9	844.2	862.5
50°	741.0	761.6	776.2	800.5	817.5
52.5°	694.8	716.7	731.3	754.4	771.4
55°	646.2	666.9	683.9	708.2	722.8
57.5°	597.6	618.3	636.5	658.4	671.7
60°	546.6	568.5	585.5	607.4	617.1
62.5°	493.2	516.3	533.3	550.3	558.8
65°	440.9	464.0	482.2	492.0	498.0
67.5°	387.5	410.6	427.6	432.4	436.1
70°	332.8	355.9	368.1	370.5	374.1
72.5°	278.2	301.3	311.0	311.0	312.2
75°	224.7	247.8	251.5	251.5	253.9
77.5°	172.5	193.1	195.6	195.6	195.6
80°	122.7	138.5	142.1	142.1	140.9
82.5°	77.7	88.7	94.7	89.9	87.5
85°	40.1	47.4	49.8	41.3	38.9
87.5°	12.1	14.6	12.1	7.3	6.1
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	16.85	18.50	17.21	18.81	19.13	17.36	19.00	17.72	19.32	19.63
	3H	18.62	20.11	19.00	20.44	20.80	19.15	20.64	19.53	20.97	21.33
	4H	19.24	20.65	19.64	21.00	21.37	19.78	21.19	20.18	21.54	21.91
	6H	19.65	20.95	20.06	21.31	21.70	20.21	21.51	20.62	21.87	22.26
	8H	19.75	20.99	20.17	21.38	21.78	20.31	21.55	20.73	21.94	22.34
	12H	19.79	20.98	20.22	21.36	21.79	20.35	21.54	20.78	21.92	22.35
4H	2H	17.57	18.97	17.97	19.32	19.70	17.97	19.37	18.36	19.72	20.09
	3H	19.56	20.74	19.97	21.14	21.54	19.98	21.16	20.39	21.55	21.95
	4H	20.32	21.39	20.75	21.80	22.23	20.73	21.80	21.16	22.21	22.64
	6H	20.84	21.77	21.30	22.21	22.67	21.27	22.20	21.72	22.64	23.09
	8H	20.98	21.85	21.44	22.29	22.75	21.41	22.28	21.87	22.72	23.19
	12H	21.05	21.83	21.53	22.31	22.77	21.48	22.26	21.96	22.73	23.20
8H	4H	20.65	21.52	21.11	21.97	22.43	21.02	21.89	21.48	22.33	22.79
	6H	21.29	22.01	21.78	22.50	22.97	21.66	22.38	22.15	22.87	23.34
	8H	21.48	22.13	21.99	22.63	23.12	21.85	22.50	22.36	23.01	23.49
	12H	21.60	22.17	22.11	22.66	23.22	21.96	22.53	22.47	23.02	23.58
12H	4H	20.69	21.47	21.16	21.94	22.41	21.04	21.82	21.52	22.30	22.77
	6H	21.34	21.99	21.85	22.49	22.98	21.70	22.35	22.21	22.85	23.34
	8H	21.58	22.15	22.09	22.64	23.20	21.94	22.51	22.45	23.00	23.56