

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: P1585661

Luminaire Tested: 14CZSP-SB-37HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-37HE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

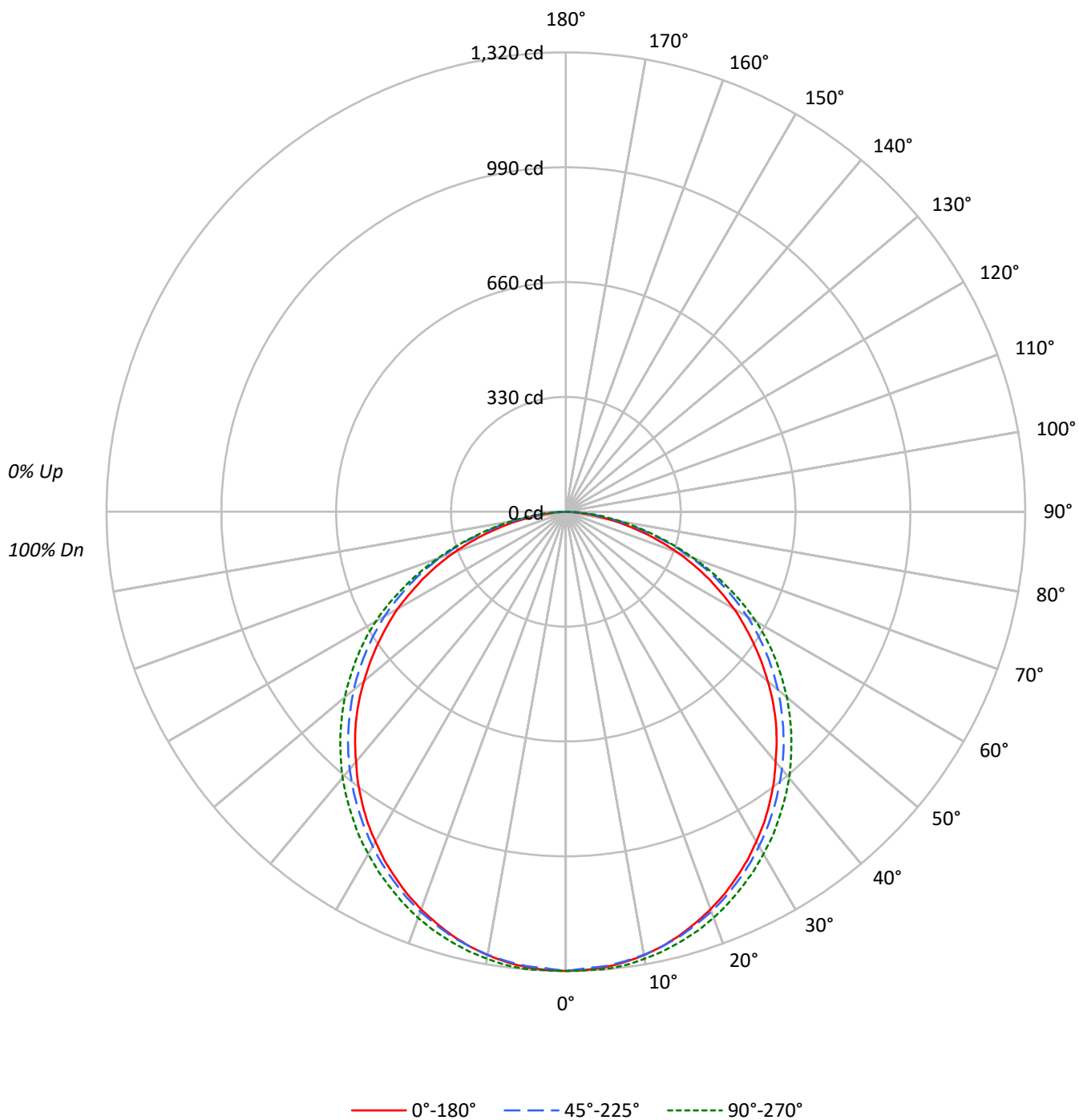
Lumens per Lamp: N/A
Luminaire Lumens: 3812.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	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	58	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°	4446	4446	4446
5°	4443	4432	4461
10°	4426	4423	4462
15°	4398	4408	4459
20°	4359	4385	4452
25°	4312	4353	4434
30°	4258	4320	4418
35°	4199	4285	4402
40°	4126	4249	4391
45°	4066	4210	4367
50°	3969	4171	4346
55°	3868	4116	4313
60°	3763	4056	4256
65°	3594	3949	4093
70°	3354	3770	3863
75°	2988	3418	3518
80°	2439	2963	3111
85°	1612	2358	2525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4367 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.3
10°-20°	358.0	9.4
20°-30°	542.0	14.2
30°-40°	654.2	17.2
40°-50°	683.2	17.9
50°-60°	625.0	16.4
60°-70°	483.2	12.7
70°-80°	273.6	7.2
80°-90°	68.0	1.8
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°	1024.9	26.9
0°-40°	1679.1	44.0
0°-60°	2987.3	78.4
0°-90°	3812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1314	1323	1310	1311	1319	125
15°	1261	1272	1264	1270	1278	356
25°	1160	1174	1171	1182	1193	534
35°	1021	1035	1042	1059	1070	639
45°	853	870	884	906	916	657
55°	658	678	701	723	734	589
65°	451	470	495	510	513	445
75°	230	249	262	269	270	243
85°	42	48	61	64	65	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.5	1319.5	1319.5	1319.5	1319.5
2.5°	1317.8	1327.2	1312.9	1315.7	1318.4
5°	1313.5	1322.8	1310.2	1311.3	1318.9
7.5°	1305.2	1315.7	1302.5	1304.7	1314.0
10°	1293.7	1304.1	1292.6	1294.8	1304.1
12.5°	1278.9	1289.3	1279.4	1282.7	1293.1
15°	1260.7	1271.7	1263.5	1269.5	1278.3
17.5°	1238.8	1252.5	1243.7	1253.1	1261.8
20°	1215.7	1229.4	1222.9	1231.1	1241.5
22.5°	1189.4	1203.1	1198.1	1206.9	1218.5
25°	1159.7	1174.5	1170.7	1181.7	1192.7
27.5°	1129.0	1143.2	1142.1	1154.2	1165.7
30°	1094.4	1109.7	1110.3	1124.6	1135.5
32.5°	1059.8	1073.5	1076.8	1092.7	1105.3
35°	1020.8	1035.1	1041.6	1059.2	1070.2
37.5°	981.2	997.2	1004.3	1023.5	1035.1
40°	937.9	956.0	965.9	986.2	998.3
42.5°	896.7	913.2	926.3	946.7	957.6
45°	853.3	869.8	883.5	906.0	916.5
47.5°	806.6	824.8	839.6	861.5	873.1
50°	757.2	777.0	795.7	817.1	829.1
52.5°	708.3	727.6	749.0	769.8	781.9
55°	658.4	678.1	700.7	722.6	734.2
57.5°	607.9	627.6	652.3	672.1	684.2
60°	558.4	576.6	601.8	621.6	631.5
62.5°	502.4	523.3	549.1	568.9	574.4
65°	450.8	469.5	495.3	510.1	513.4
67.5°	395.9	414.6	440.4	448.6	453.6
70°	340.4	360.2	382.7	388.2	392.1
72.5°	284.4	304.8	322.3	327.8	331.1
75°	229.5	249.3	262.5	269.1	270.2
77.5°	176.3	194.4	206.5	214.2	214.2
80°	125.7	139.5	152.7	160.9	160.3
82.5°	80.2	90.6	104.3	110.4	114.2
85°	41.7	48.3	61.0	63.7	65.3
87.5°	13.2	17.0	22.0	18.1	17.6
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	16.86	18.51	17.23	18.83	19.14	17.40	19.06	17.77	19.37	19.68
	3H	18.64	20.13	19.01	20.46	20.82	19.27	20.76	19.64	21.09	21.44
	4H	19.26	20.67	19.66	21.02	21.39	19.94	21.35	20.34	21.69	22.07
	6H	19.67	20.97	20.08	21.33	21.73	20.42	21.73	20.83	22.09	22.48
	8H	19.77	21.01	20.19	21.40	21.80	20.58	21.83	21.00	22.22	22.61
	12H	19.81	21.01	20.24	21.39	21.82	20.68	21.87	21.11	22.25	22.68
4H	2H	17.60	19.01	18.00	19.36	19.73	18.02	19.43	18.42	19.78	20.15
	3H	19.59	20.78	20.00	21.17	21.57	20.10	21.28	20.51	21.68	22.08
	4H	20.34	21.41	20.78	21.83	22.26	20.90	21.97	21.33	22.39	22.82
	6H	20.86	21.80	21.32	22.24	22.69	21.52	22.45	21.97	22.89	23.35
	8H	21.00	21.87	21.46	22.32	22.78	21.72	22.60	22.18	23.04	23.50
	12H	21.08	21.86	21.55	22.34	22.81	21.86	22.65	22.34	23.12	23.59
8H	4H	20.70	21.57	21.16	22.02	22.48	21.19	22.07	21.65	22.51	22.98
	6H	21.33	22.06	21.82	22.55	23.02	21.93	22.65	22.42	23.14	23.62
	8H	21.53	22.18	22.03	22.68	23.17	22.20	22.85	22.71	23.36	23.84
	12H	21.65	22.23	22.16	22.72	23.28	22.41	22.98	22.91	23.47	24.03
12H	4H	20.74	21.53	21.22	22.00	22.47	21.22	22.01	21.70	22.48	22.95
	6H	21.40	22.05	21.90	22.56	23.04	21.97	22.62	22.48	23.13	23.61
	8H	21.65	22.22	22.15	22.71	23.27	22.30	22.87	22.80	23.36	23.92