

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: P1585660

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-37HE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

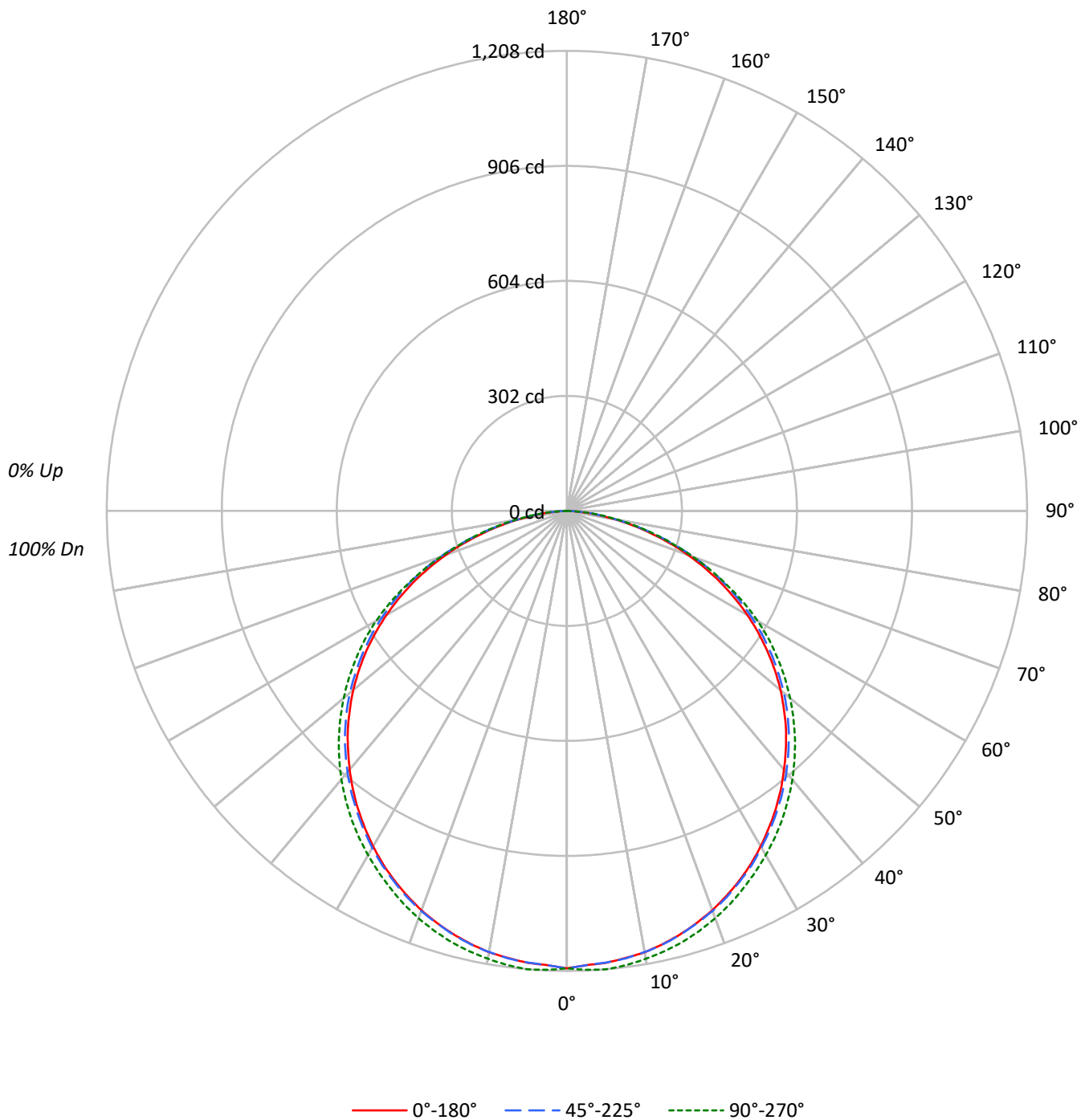
Lumens per Lamp: N/A
Luminaire Lumens: 3545.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4048	4048	4048
5°	4028	4026	4087
10°	4026	4025	4086
15°	4015	4018	4088
20°	4002	4010	4082
25°	3982	3992	4069
30°	3958	3975	4062
35°	3932	3957	4060
40°	3902	3942	4052
45°	3878	3927	4035
50°	3839	3899	4009
55°	3779	3849	3970
60°	3688	3783	3900
65°	3549	3683	3722
70°	3337	3493	3471
75°	2997	3123	3145
80°	2476	2602	2738
85°	1659	1929	2037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4035 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.2
10°-20°	327.3	9.2
20°-30°	498.4	14.1
30°-40°	606.5	17.1
40°-50°	639.4	18.0
50°-60°	588.9	16.6
60°-70°	454.8	12.8
70°-80°	254.5	7.2
80°-90°	61.3	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°	939.5	26.5
0°-40°	1546.0	43.6
0°-60°	2774.3	78.3
0°-90°	3545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1191	1208	1190	1192	1208	113
15°	1151	1166	1152	1158	1172	325
25°	1071	1086	1074	1081	1094	494
35°	956	970	962	974	987	598
45°	814	825	824	836	847	627
55°	643	654	655	669	676	574
65°	445	458	462	466	467	440
75°	230	244	240	239	242	244
85°	43	47	50	56	53	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.3	1201.3	1201.3	1201.3	1201.3
2.5°	1193.7	1211.0	1193.7	1196.4	1206.2
5°	1191.0	1207.8	1190.4	1192.0	1208.3
7.5°	1183.9	1201.3	1185.0	1187.2	1202.9
10°	1176.8	1192.6	1176.3	1179.0	1194.2
12.5°	1164.9	1181.2	1166.0	1169.2	1184.4
15°	1150.8	1166.5	1151.9	1158.4	1172.0
17.5°	1134.5	1149.7	1135.6	1143.2	1156.2
20°	1116.0	1130.7	1118.2	1123.6	1138.3
22.5°	1094.3	1109.5	1097.6	1102.5	1118.2
25°	1071.0	1086.2	1073.7	1080.8	1094.3
27.5°	1045.5	1060.1	1049.3	1058.0	1069.9
30°	1017.3	1031.4	1021.6	1031.9	1043.9
32.5°	986.9	1002.1	992.3	1004.2	1016.2
35°	955.9	970.0	961.9	973.8	986.9
37.5°	922.3	935.8	929.9	942.3	954.3
40°	887.0	902.2	896.2	909.2	921.2
42.5°	850.6	865.3	860.4	873.9	884.3
45°	813.7	825.1	824.0	836.5	846.8
47.5°	773.0	787.1	784.9	797.4	806.6
50°	732.3	743.7	743.7	755.6	764.8
52.5°	688.3	699.7	699.7	713.8	721.4
55°	643.2	654.1	655.2	668.8	675.8
57.5°	595.5	606.9	609.0	622.6	629.1
60°	547.2	558.0	561.3	574.9	578.7
62.5°	496.7	509.7	511.3	522.2	524.4
65°	445.1	458.1	461.9	466.3	466.8
67.5°	392.5	406.0	409.8	409.8	409.8
70°	338.7	351.2	354.5	352.3	352.3
72.5°	284.4	298.0	296.4	294.2	295.3
75°	230.2	244.3	239.9	239.4	241.6
77.5°	178.0	191.6	184.6	188.9	189.4
80°	127.6	137.9	134.1	140.6	141.1
82.5°	82.0	88.5	89.6	95.0	93.4
85°	42.9	47.2	49.9	55.9	52.7
87.5°	13.6	17.9	16.3	19.0	14.7
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	16.89	18.55	17.26	18.86	19.18	17.11	18.76	17.47	19.08	19.39
	3H	18.71	20.21	19.09	20.54	20.90	18.91	20.41	19.29	20.73	21.09
	4H	19.36	20.77	19.76	21.12	21.49	19.55	20.96	19.94	21.31	21.68
	6H	19.79	21.10	20.20	21.46	21.85	20.00	21.31	20.41	21.67	22.06
	8H	19.90	21.15	20.32	21.54	21.94	20.13	21.38	20.56	21.77	22.17
	12H	19.95	21.15	20.38	21.53	21.96	20.21	21.41	20.64	21.79	22.22
4H	2H	17.57	18.98	17.97	19.33	19.71	17.74	19.15	18.14	19.50	19.88
	3H	19.61	20.80	20.02	21.19	21.59	19.75	20.94	20.16	21.34	21.74
	4H	20.39	21.47	20.82	21.88	22.31	20.51	21.59	20.94	22.00	22.43
	6H	20.94	21.88	21.40	22.32	22.77	21.09	22.03	21.54	22.47	22.92
	8H	21.09	21.97	21.55	22.41	22.87	21.26	22.14	21.72	22.58	23.05
	12H	21.17	21.96	21.65	22.44	22.90	21.38	22.16	21.86	22.64	23.11
8H	4H	20.70	21.58	21.16	22.02	22.48	20.81	21.69	21.27	22.13	22.59
	6H	21.36	22.09	21.85	22.58	23.05	21.49	22.22	21.98	22.71	23.18
	8H	21.57	22.22	22.07	22.72	23.21	21.73	22.38	22.24	22.89	23.37
	12H	21.70	22.28	22.21	22.77	23.33	21.91	22.48	22.41	22.97	23.53
12H	4H	20.73	21.52	21.21	21.99	22.46	20.84	21.62	21.32	22.10	22.57
	6H	21.40	22.06	21.91	22.57	23.05	21.53	22.19	22.04	22.69	23.18
	8H	21.66	22.24	22.17	22.73	23.29	21.82	22.40	22.33	22.89	23.45