

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: P1585658

Luminaire Tested: 14CZSP-SB-37HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585658
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

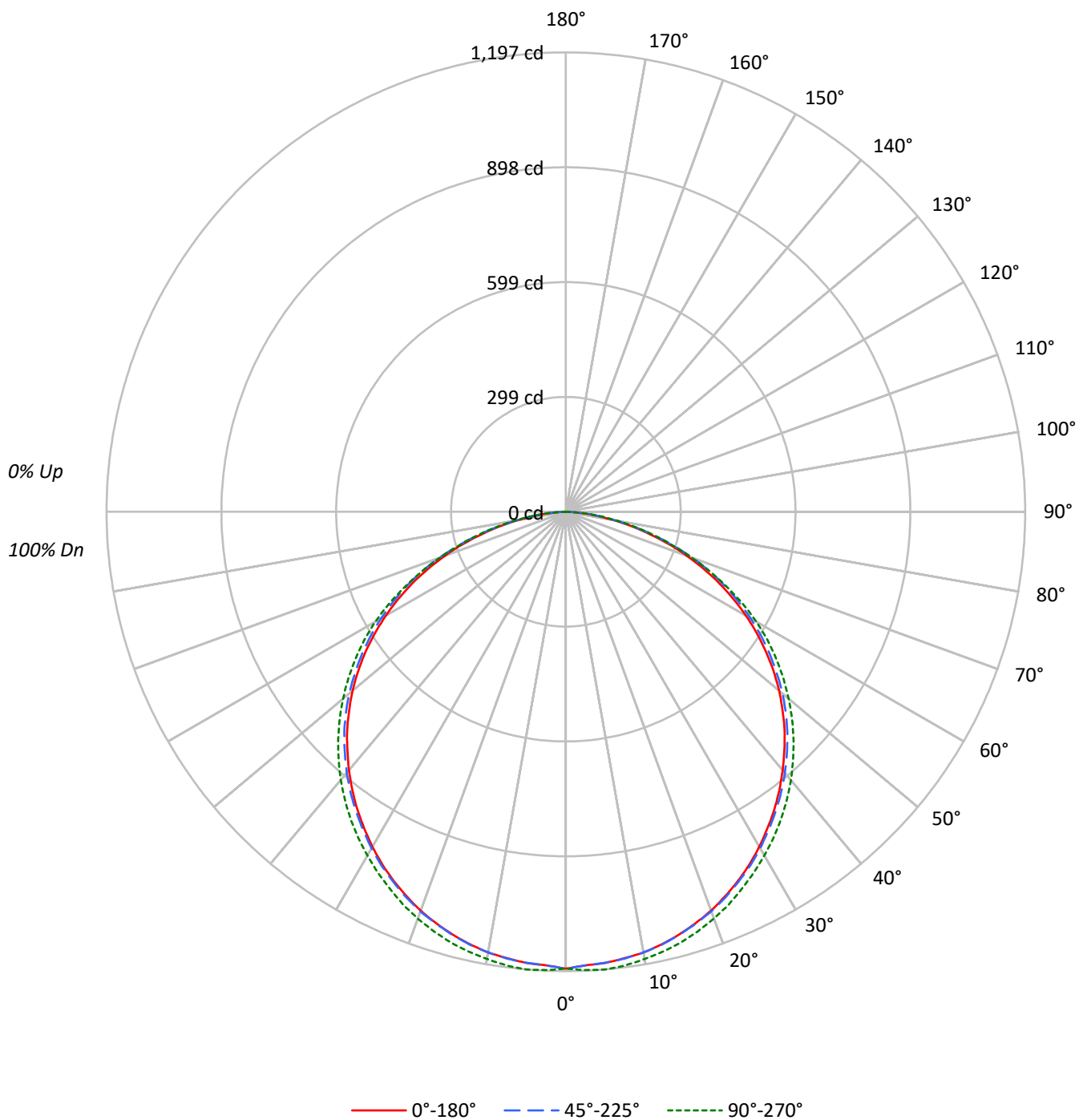
Lumens per Lamp: N/A
Luminaire Lumens: 3513.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4011	4011	4011
5°	3992	3990	4050
10°	3990	3989	4049
15°	3978	3982	4051
20°	3966	3973	4045
25°	3946	3956	4032
30°	3922	3939	4025
35°	3897	3921	4023
40°	3866	3906	4016
45°	3842	3891	3999
50°	3804	3863	3973
55°	3745	3814	3934
60°	3654	3748	3864
65°	3517	3650	3688
70°	3307	3461	3439
75°	2970	3096	3117
80°	2453	2579	2715
85°	1643	1914	2018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3999 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.2
10°-20°	324.3	9.2
20°-30°	493.9	14.1
30°-40°	601.0	17.1
40°-50°	633.6	18.0
50°-60°	583.6	16.6
60°-70°	450.7	12.8
70°-80°	252.2	7.2
80°-90°	60.8	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°	931.0	26.5
0°-40°	1532.0	43.6
0°-60°	2749.3	78.3
0°-90°	3513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1180	1197	1180	1181	1197	112
15°	1140	1156	1142	1148	1161	322
25°	1061	1076	1064	1071	1084	489
35°	947	961	953	965	978	592
45°	806	818	817	829	839	621
55°	637	648	649	663	670	569
65°	441	454	458	462	463	436
75°	228	242	238	237	239	242
85°	42	47	50	55	52	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.4	1190.4	1190.4	1190.4	1190.4
2.5°	1182.9	1200.1	1182.9	1185.6	1195.3
5°	1180.2	1196.9	1179.7	1181.3	1197.4
7.5°	1173.2	1190.4	1174.3	1176.4	1192.0
10°	1166.2	1181.8	1165.7	1168.4	1183.4
12.5°	1154.4	1170.5	1155.5	1158.7	1173.8
15°	1140.4	1156.0	1141.5	1147.9	1161.4
17.5°	1124.3	1139.3	1125.3	1132.9	1145.8
20°	1106.0	1120.5	1108.1	1113.5	1128.0
22.5°	1084.5	1099.5	1087.7	1092.5	1108.1
25°	1061.3	1076.4	1064.0	1071.0	1084.5
27.5°	1036.0	1050.6	1039.8	1048.4	1060.2
30°	1008.1	1022.1	1012.4	1022.6	1034.4
32.5°	977.9	993.0	983.3	995.2	1007.0
35°	947.3	961.3	953.2	965.0	977.9
37.5°	913.9	927.4	921.5	933.8	945.7
40°	879.0	894.0	888.1	901.0	912.9
42.5°	842.9	857.5	852.6	866.1	876.3
45°	806.3	817.6	816.6	828.9	839.2
47.5°	766.0	780.0	777.8	790.2	799.4
50°	725.7	737.0	737.0	748.8	757.9
52.5°	682.1	693.4	693.4	707.4	714.9
55°	637.4	648.2	649.3	662.7	669.7
57.5°	590.1	601.4	603.6	617.0	623.5
60°	542.2	553.0	556.2	569.7	573.4
62.5°	492.2	505.1	506.7	517.5	519.6
65°	441.1	454.0	457.8	462.1	462.6
67.5°	388.9	402.4	406.1	406.1	406.1
70°	335.7	348.0	351.3	349.1	349.1
72.5°	281.9	295.3	293.7	291.6	292.6
75°	228.1	242.1	237.8	237.2	239.4
77.5°	176.4	189.9	182.9	187.2	187.7
80°	126.4	136.6	132.9	139.3	139.9
82.5°	81.2	87.7	88.8	94.1	92.5
85°	42.5	46.8	49.5	55.4	52.2
87.5°	13.4	17.8	16.1	18.8	14.5
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	18.52	17.23	18.83	19.14	17.08	18.73	17.44	19.05	19.36
	3H	18.68	20.18	19.06	20.51	20.87	18.88	20.38	19.25	20.70	21.06
	4H	19.33	20.74	19.73	21.09	21.46	19.52	20.93	19.91	21.28	21.65
	6H	19.76	21.07	20.17	21.43	21.82	19.97	21.28	20.38	21.64	22.03
	8H	19.87	21.12	20.29	21.51	21.90	20.10	21.35	20.52	21.74	22.14
	12H	19.92	21.12	20.35	21.50	21.93	20.18	21.38	20.61	21.76	22.19
4H	2H	17.54	18.95	17.94	19.30	19.67	17.71	19.12	18.11	19.47	19.84
	3H	19.58	20.77	19.99	21.16	21.56	19.72	20.91	20.13	21.31	21.71
	4H	20.36	21.43	20.79	21.85	22.28	20.48	21.55	20.91	21.97	22.40
	6H	20.91	21.85	21.36	22.29	22.74	21.06	21.99	21.51	22.43	22.89
	8H	21.06	21.93	21.52	22.38	22.84	21.23	22.11	21.69	22.55	23.01
	12H	21.14	21.93	21.62	22.40	22.87	21.34	22.13	21.82	22.61	23.08
8H	4H	20.67	21.55	21.13	21.99	22.45	20.78	21.65	21.24	22.10	22.56
	6H	21.33	22.06	21.82	22.54	23.02	21.46	22.19	21.95	22.67	23.15
	8H	21.53	22.19	22.04	22.69	23.18	21.70	22.35	22.20	22.86	23.34
	12H	21.67	22.25	22.17	22.74	23.30	21.87	22.45	22.38	22.94	23.50
12H	4H	20.70	21.49	21.18	21.96	22.43	20.80	21.59	21.28	22.07	22.54
	6H	21.37	22.03	21.88	22.53	23.02	21.50	22.15	22.01	22.66	23.15
	8H	21.63	22.21	22.14	22.70	23.26	21.79	22.37	22.30	22.86	23.42