

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: P1585616

Luminaire Tested: 14CZSP-SB-32HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585616
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-32HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

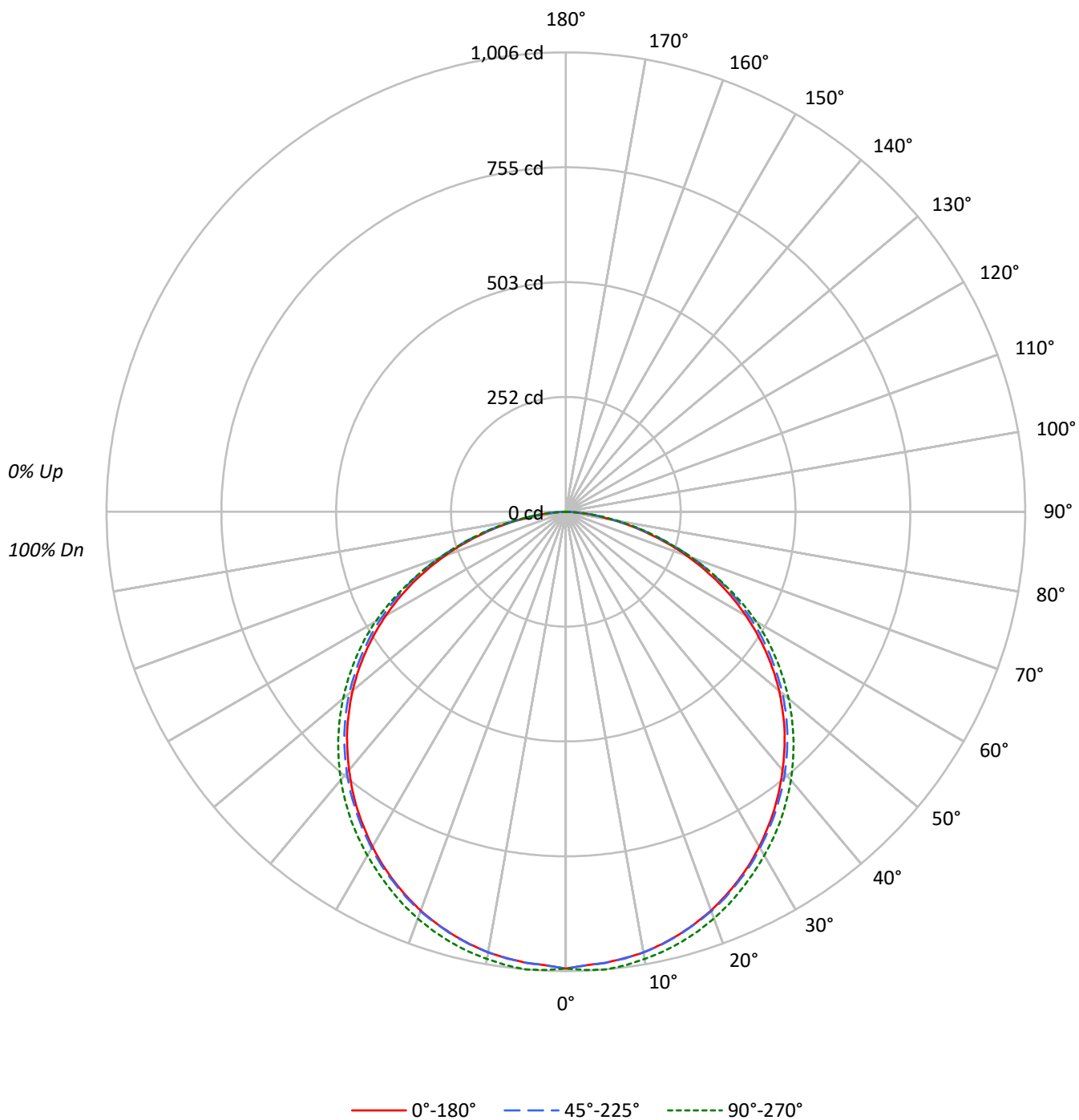
Lumens per Lamp: N/A
Luminaire Lumens: 2952.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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°	3371	3371	3371
5°	3354	3353	3403
10°	3353	3351	3402
15°	3343	3346	3404
20°	3333	3339	3399
25°	3316	3324	3388
30°	3296	3310	3382
35°	3274	3295	3380
40°	3249	3283	3374
45°	3229	3270	3360
50°	3197	3246	3339
55°	3146	3205	3306
60°	3070	3150	3248
65°	2956	3067	3099
70°	2779	2908	2891
75°	2496	2601	2618
80°	2061	2166	2280
85°	1380	1608	1693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.2
10°-20°	272.5	9.2
20°-30°	415.0	14.1
30°-40°	505.1	17.1
40°-50°	532.4	18.0
50°-60°	490.4	16.6
60°-70°	378.8	12.8
70°-80°	212.0	7.2
80°-90°	51.1	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°	782.3	26.5
0°-40°	1287.4	43.6
0°-60°	2310.3	78.3
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	992	1006	991	993	1006	94
15°	958	971	959	965	976	271
25°	892	904	894	900	911	411
35°	796	808	801	811	822	498
45°	678	687	686	697	705	522
55°	536	545	546	557	563	478
65°	371	382	385	388	389	366
75°	192	203	200	199	201	203
85°	36	39	42	47	44	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	994.0	1008.5	994.0	996.3	1004.4
5°	991.7	1005.7	991.3	992.6	1006.2
7.5°	985.9	1000.3	986.8	988.6	1001.7
10°	980.0	993.1	979.5	981.8	994.4
12.5°	970.0	983.6	970.9	973.7	986.3
15°	958.3	971.4	959.2	964.6	975.9
17.5°	944.7	957.4	945.6	952.0	962.8
20°	929.4	941.6	931.2	935.7	947.9
22.5°	911.3	923.9	914.0	918.1	931.2
25°	891.8	904.5	894.1	900.0	911.3
27.5°	870.6	882.8	873.8	881.0	890.9
30°	847.1	858.8	850.7	859.3	869.2
32.5°	821.8	834.4	826.3	836.2	846.2
35°	796.0	807.8	801.0	810.9	821.8
37.5°	768.0	779.3	774.3	784.7	794.7
40°	738.6	751.3	746.3	757.1	767.1
42.5°	708.3	720.5	716.5	727.8	736.3
45°	677.6	687.1	686.2	696.6	705.2
47.5°	643.7	655.4	653.6	664.0	671.7
50°	609.8	619.3	619.3	629.2	636.9
52.5°	573.2	582.7	582.7	594.4	600.7
55°	535.6	544.7	545.6	556.9	562.8
57.5°	495.9	505.4	507.2	518.5	523.9
60°	455.6	464.7	467.4	478.7	481.9
62.5°	413.6	424.4	425.8	434.8	436.7
65°	370.7	381.5	384.7	388.3	388.7
67.5°	326.8	338.1	341.3	341.3	341.3
70°	282.1	292.5	295.2	293.4	293.4
72.5°	236.9	248.2	246.8	245.0	245.9
75°	191.7	203.4	199.8	199.3	201.1
77.5°	148.3	159.6	153.7	157.3	157.8
80°	106.2	114.8	111.6	117.1	117.5
82.5°	68.3	73.7	74.6	79.1	77.7
85°	35.7	39.3	41.6	46.6	43.8
87.5°	11.3	14.9	13.6	15.8	12.2
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	16.26	17.91	16.62	18.23	18.54	16.47	18.13	16.84	18.44	18.76
	3H	18.08	19.58	18.45	19.90	20.26	18.27	19.77	18.65	20.10	20.46
	4H	18.72	20.14	19.12	20.48	20.86	18.91	20.32	19.31	20.67	21.05
	6H	19.15	20.46	19.56	20.83	21.22	19.36	20.67	19.77	21.04	21.43
	8H	19.26	20.51	19.69	20.90	21.30	19.50	20.75	19.92	21.14	21.53
	12H	19.32	20.51	19.74	20.90	21.32	19.57	20.77	20.00	21.15	21.58
4H	2H	16.94	18.35	17.33	18.70	19.07	17.11	18.52	17.50	18.87	19.24
	3H	18.98	20.16	19.39	20.56	20.96	19.12	20.30	19.53	20.70	21.10
	4H	19.76	20.83	20.19	21.24	21.68	19.88	20.95	20.31	21.36	21.80
	6H	20.31	21.24	20.76	21.68	22.14	20.45	21.39	20.90	21.83	22.28
	8H	20.45	21.33	20.91	21.77	22.24	20.63	21.50	21.09	21.95	22.41
	12H	20.54	21.33	21.02	21.80	22.27	20.74	21.53	21.22	22.00	22.47
8H	4H	20.06	20.94	20.52	21.38	21.85	20.17	21.05	20.63	21.49	21.96
	6H	20.72	21.45	21.22	21.94	22.41	20.85	21.58	21.35	22.07	22.54
	8H	20.93	21.58	21.44	22.09	22.57	21.09	21.75	21.60	22.25	22.74
	12H	21.06	21.64	21.57	22.13	22.69	21.27	21.85	21.78	22.34	22.90
12H	4H	20.10	20.88	20.57	21.36	21.83	20.20	20.99	20.68	21.46	21.93
	6H	20.77	21.42	21.28	21.93	22.41	20.90	21.55	21.40	22.06	22.54
	8H	21.03	21.60	21.53	22.09	22.65	21.19	21.76	21.69	22.25	22.81

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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