

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: P1585617

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585617
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-32HE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

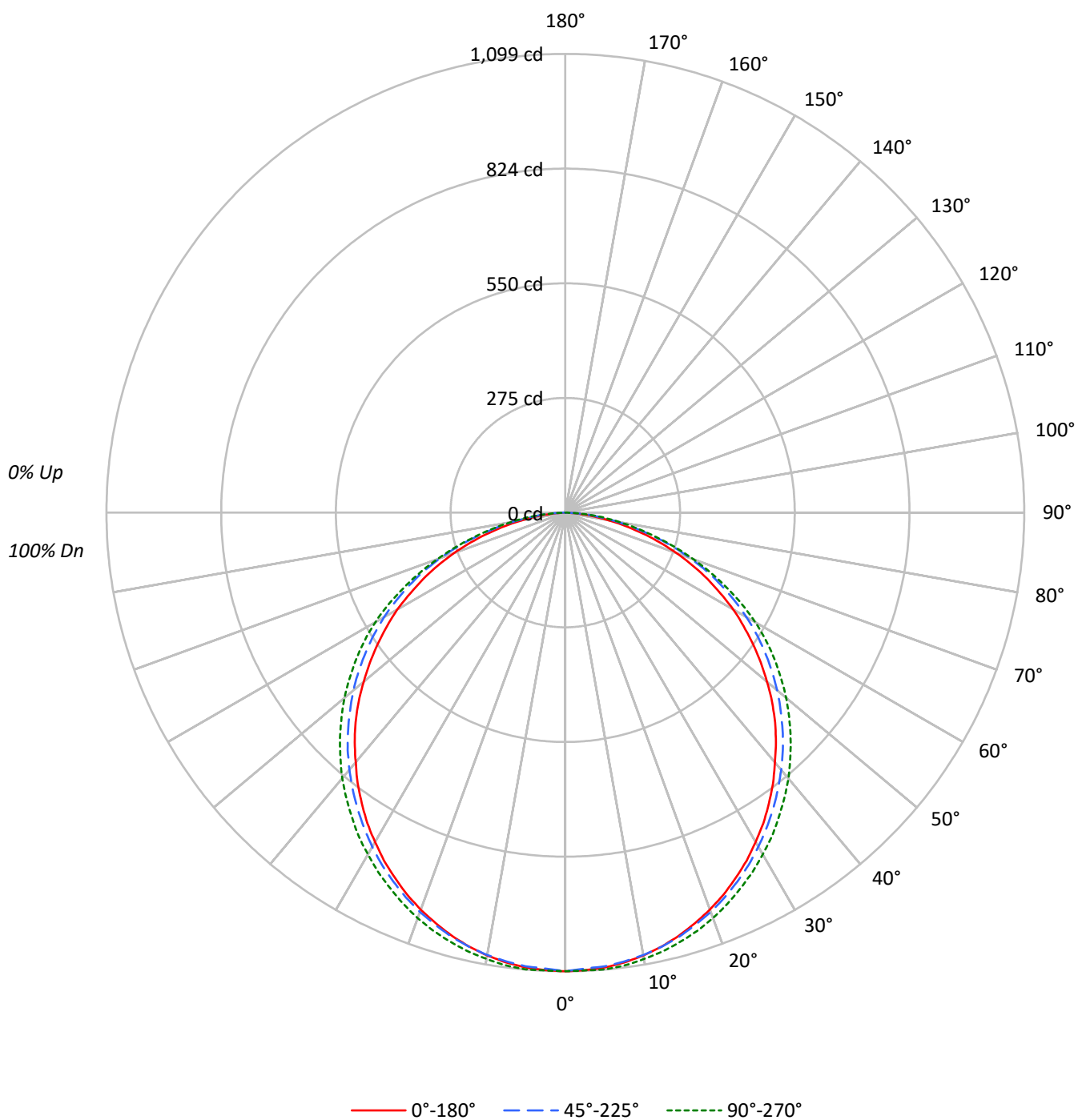
Lumens per Lamp: N/A
Luminaire Lumens: 3174.0 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3702	3702	3702
5°	3699	3690	3715
10°	3686	3683	3715
15°	3662	3670	3713
20°	3630	3651	3707
25°	3590	3624	3692
30°	3545	3597	3679
35°	3496	3568	3666
40°	3435	3537	3656
45°	3386	3505	3636
50°	3305	3473	3619
55°	3220	3427	3591
60°	3134	3377	3543
65°	2993	3288	3409
70°	2793	3140	3216
75°	2488	2845	2928
80°	2032	2466	2591
85°	1342	1960	2103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.3
10°-20°	298.1	9.4
20°-30°	451.3	14.2
30°-40°	544.7	17.2
40°-50°	568.9	17.9
50°-60°	520.4	16.4
60°-70°	402.3	12.7
70°-80°	227.7	7.2
80°-90°	56.6	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°	853.4	26.9
0°-40°	1398.1	44.0
0°-60°	2487.4	78.4
0°-90°	3174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1094	1101	1091	1092	1098	104
15°	1050	1059	1052	1057	1064	296
25°	966	978	975	984	993	445
35°	850	862	867	882	891	532
45°	710	724	736	754	763	547
55°	548	565	583	602	611	490
65°	375	391	412	425	428	370
75°	191	208	218	224	225	203
85°	35	40	51	53	54	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.7	1098.7	1098.7	1098.7	1098.7
2.5°	1097.3	1105.1	1093.2	1095.5	1097.7
5°	1093.6	1101.4	1090.9	1091.8	1098.2
7.5°	1086.8	1095.5	1084.5	1086.3	1094.1
10°	1077.2	1085.9	1076.3	1078.1	1085.9
12.5°	1064.8	1073.5	1065.3	1068.0	1076.7
15°	1049.7	1058.9	1052.0	1057.1	1064.4
17.5°	1031.4	1042.9	1035.6	1043.3	1050.6
20°	1012.2	1023.7	1018.2	1025.0	1033.7
22.5°	990.3	1001.7	997.6	1004.9	1014.5
25°	965.6	978.0	974.8	983.9	993.0
27.5°	940.0	951.9	951.0	961.0	970.6
30°	911.2	924.0	924.5	936.3	945.5
32.5°	882.4	893.8	896.6	909.8	920.3
35°	849.9	861.8	867.3	881.9	891.1
37.5°	817.0	830.3	836.2	852.2	861.8
40°	780.9	796.0	804.2	821.1	831.2
42.5°	746.6	760.3	771.3	788.2	797.4
45°	710.5	724.2	735.6	754.4	763.1
47.5°	671.6	686.7	699.1	717.3	727.0
50°	630.5	646.9	662.5	680.3	690.4
52.5°	589.8	605.8	623.6	641.0	651.1
55°	548.2	564.6	583.4	601.7	611.3
57.5°	506.1	522.6	543.2	559.6	569.7
60°	465.0	480.1	501.1	517.6	525.8
62.5°	418.3	435.7	457.2	473.7	478.2
65°	375.4	390.9	412.4	424.7	427.5
67.5°	329.6	345.2	366.7	373.5	377.6
70°	283.5	299.9	318.7	323.2	326.4
72.5°	236.8	253.7	268.4	272.9	275.7
75°	191.1	207.6	218.5	224.0	224.9
77.5°	146.8	161.8	171.9	178.3	178.3
80°	104.7	116.1	127.1	134.0	133.5
82.5°	66.8	75.4	86.9	91.9	95.1
85°	34.7	40.2	50.7	53.0	54.4
87.5°	11.0	14.2	18.3	15.1	14.6
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	16.23	17.88	16.59	18.19	18.51	16.77	18.42	17.13	18.73	19.05
	3H	18.00	19.49	18.38	19.82	20.18	18.63	20.12	19.00	20.45	20.81
	4H	18.62	20.03	19.02	20.38	20.75	19.30	20.71	19.70	21.06	21.43
	6H	19.03	20.33	19.44	20.70	21.09	19.79	21.09	20.20	21.46	21.85
	8H	19.13	20.38	19.55	20.77	21.16	19.94	21.19	20.37	21.58	21.98
	12H	19.18	20.37	19.61	20.75	21.18	20.04	21.24	20.47	21.62	22.05
4H	2H	16.97	18.37	17.36	18.72	19.10	17.39	18.80	17.79	19.14	19.52
	3H	18.96	20.14	19.37	20.54	20.94	19.47	20.65	19.88	21.04	21.44
	4H	19.71	20.78	20.14	21.19	21.63	20.27	21.34	20.70	21.75	22.18
	6H	20.23	21.16	20.68	21.60	22.06	20.88	21.82	21.34	22.26	22.71
	8H	20.36	21.24	20.82	21.68	22.14	21.09	21.96	21.54	22.40	22.87
	12H	20.44	21.23	20.92	21.70	22.17	21.22	22.01	21.70	22.49	22.96
8H	4H	20.06	20.94	20.52	21.38	21.84	20.56	21.43	21.02	21.87	22.34
	6H	20.70	21.42	21.19	21.91	22.38	21.29	22.02	21.78	22.50	22.98
	8H	20.89	21.54	21.40	22.05	22.53	21.56	22.22	22.07	22.72	23.21
	12H	21.01	21.59	21.52	22.08	22.64	21.77	22.35	22.28	22.84	23.40
12H	4H	20.10	20.89	20.58	21.37	21.83	20.58	21.37	21.06	21.84	22.31
	6H	20.76	21.41	21.27	21.92	22.40	21.33	21.99	21.84	22.49	22.98
	8H	21.01	21.59	21.51	22.08	22.64	21.66	22.24	22.17	22.73	23.29