

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: P1585628

Luminaire Tested: 14CZSP-SB-32HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585628
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

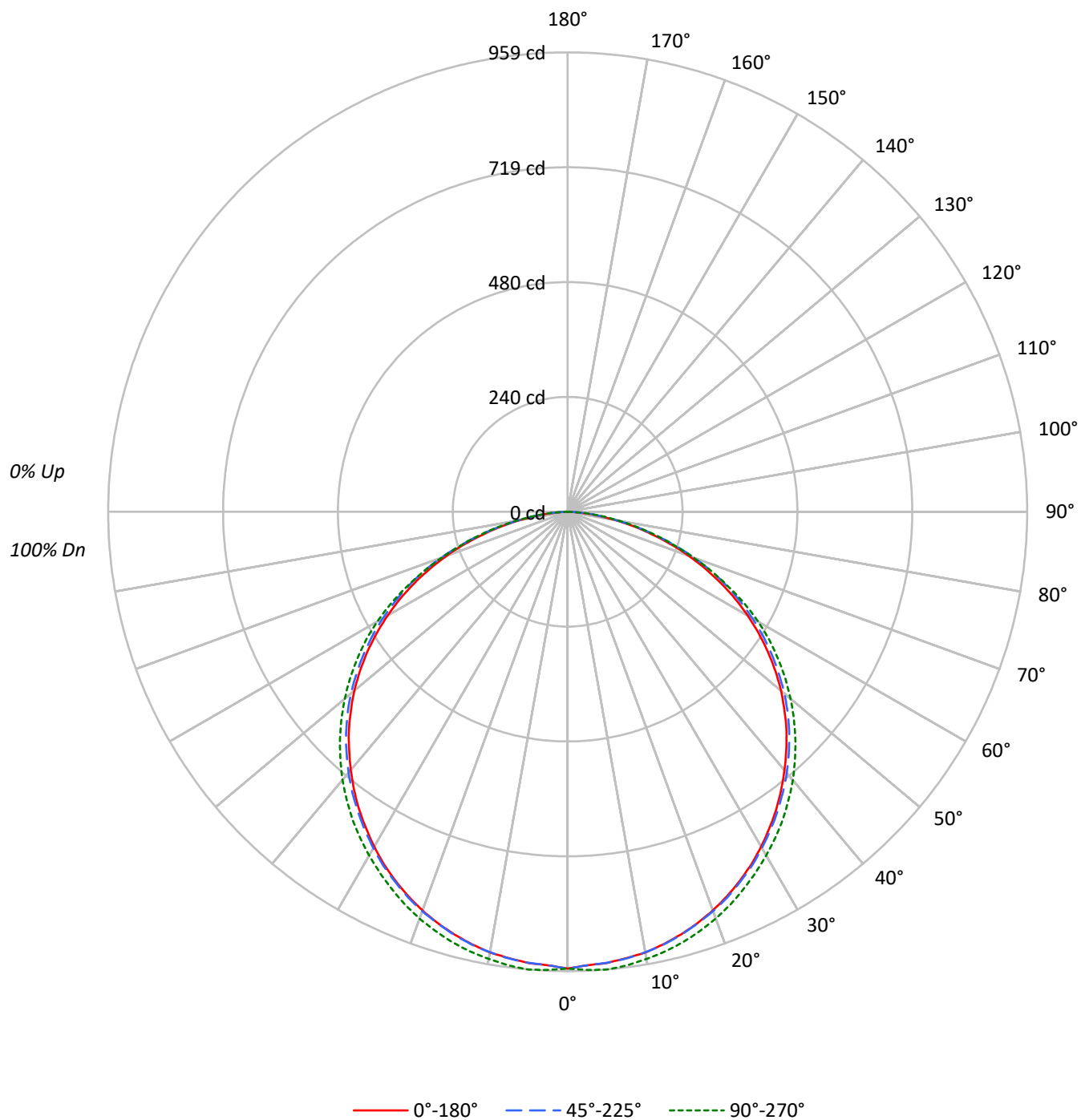
Lumens per Lamp: N/A
Luminaire Lumens: 2814.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	3213	3213	3213
5°	3198	3196	3244
10°	3196	3195	3244
15°	3187	3190	3245
20°	3177	3183	3240
25°	3161	3169	3230
30°	3142	3155	3224
35°	3121	3141	3223
40°	3097	3129	3216
45°	3078	3117	3203
50°	3047	3094	3182
55°	3000	3055	3152
60°	2927	3002	3095
65°	2817	2924	2955
70°	2649	2772	2755
75°	2379	2480	2496
80°	1966	2065	2173
85°	1314	1531	1616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.2
10°-20°	259.8	9.2
20°-30°	395.6	14.1
30°-40°	481.4	17.1
40°-50°	507.6	18.0
50°-60°	467.5	16.6
60°-70°	361.0	12.8
70°-80°	202.0	7.2
80°-90°	48.7	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°	745.7	26.5
0°-40°	1227.2	43.6
0°-60°	2202.2	78.3
0°-90°	2814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	945	959	945	946	959	90
15°	914	926	914	920	930	258
25°	850	862	852	858	869	392
35°	759	770	764	773	783	475
45°	646	655	654	664	672	498
55°	511	519	520	531	536	456
65°	353	364	367	370	371	349
75°	183	194	190	190	192	194
85°	34	38	40	44	42	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.6	953.6	953.6	953.6	953.6
2.5°	947.5	961.3	947.5	949.7	957.4
5°	945.4	958.7	944.9	946.2	959.2
7.5°	939.8	953.6	940.6	942.4	954.9
10°	934.2	946.7	933.7	935.9	948.0
12.5°	924.7	937.6	925.6	928.1	940.2
15°	913.5	926.0	914.4	919.5	930.3
17.5°	900.6	912.6	901.4	907.5	917.8
20°	885.9	897.5	887.6	891.9	903.6
22.5°	868.7	880.7	871.3	875.1	887.6
25°	850.1	862.2	852.3	857.9	868.7
27.5°	829.9	841.5	832.9	839.8	849.3
30°	807.5	818.7	810.9	819.1	828.6
32.5°	783.4	795.4	787.7	797.1	806.6
35°	758.8	770.0	763.5	773.0	783.4
37.5°	732.1	742.9	738.1	748.0	757.5
40°	704.1	716.1	711.4	721.7	731.2
42.5°	675.2	686.8	683.0	693.7	701.9
45°	645.9	655.0	654.1	664.0	672.2
47.5°	613.6	624.8	623.1	633.0	640.3
50°	581.3	590.3	590.3	599.8	607.1
52.5°	546.4	555.4	555.4	566.6	572.7
55°	510.6	519.2	520.1	530.9	536.5
57.5°	472.7	481.7	483.5	494.2	499.4
60°	434.3	443.0	445.5	456.3	459.3
62.5°	394.3	404.6	405.9	414.5	416.2
65°	353.3	363.7	366.7	370.1	370.6
67.5°	311.5	322.3	325.3	325.3	325.3
70°	268.9	278.8	281.4	279.6	279.6
72.5°	225.8	236.6	235.3	233.5	234.4
75°	182.7	193.9	190.5	190.0	191.7
77.5°	141.3	152.1	146.5	149.9	150.4
80°	101.3	109.4	106.4	111.6	112.0
82.5°	65.1	70.2	71.1	75.4	74.1
85°	34.0	37.5	39.6	44.4	41.8
87.5°	10.8	14.2	12.9	15.1	11.6
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	16.09	17.75	16.45	18.06	18.37	16.31	17.96	16.67	18.28	18.59
	3H	17.91	19.41	18.29	19.74	20.10	18.11	19.60	18.48	19.93	20.29
	4H	18.56	19.97	18.96	20.32	20.69	18.74	20.16	19.14	20.50	20.88
	6H	18.99	20.30	19.40	20.66	21.05	19.20	20.51	19.61	20.87	21.26
	8H	19.10	20.35	19.52	20.74	21.13	19.33	20.58	19.75	20.97	21.37
	12H	19.15	20.35	19.58	20.73	21.16	19.40	20.60	19.83	20.99	21.41
4H	2H	16.77	18.18	17.17	18.53	18.90	16.94	18.35	17.34	18.70	19.07
	3H	18.81	20.00	19.22	20.39	20.79	18.95	20.14	19.36	20.53	20.93
	4H	19.59	20.66	20.02	21.08	21.51	19.71	20.78	20.14	21.20	21.63
	6H	20.14	21.08	20.59	21.52	21.97	20.28	21.22	20.74	21.66	22.12
	8H	20.29	21.16	20.75	21.60	22.07	20.46	21.34	20.92	21.78	22.24
	12H	20.37	21.16	20.85	21.63	22.10	20.57	21.36	21.05	21.84	22.31
8H	4H	19.90	20.78	20.36	21.22	21.68	20.01	20.88	20.46	21.32	21.79
	6H	20.56	21.29	21.05	21.77	22.25	20.69	21.42	21.18	21.90	22.38
	8H	20.76	21.42	21.27	21.92	22.41	20.93	21.58	21.43	22.08	22.57
	12H	20.90	21.47	21.40	21.96	22.52	21.10	21.68	21.61	22.17	22.73
12H	4H	19.93	20.72	20.41	21.19	21.66	20.03	20.82	20.51	21.30	21.77
	6H	20.60	21.26	21.11	21.76	22.25	20.73	21.38	21.24	21.89	22.37
	8H	20.86	21.44	21.36	21.93	22.49	21.02	21.60	21.52	22.09	22.65