

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: P1584519

Luminaire Tested: 14CZSP-A-32HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-32HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

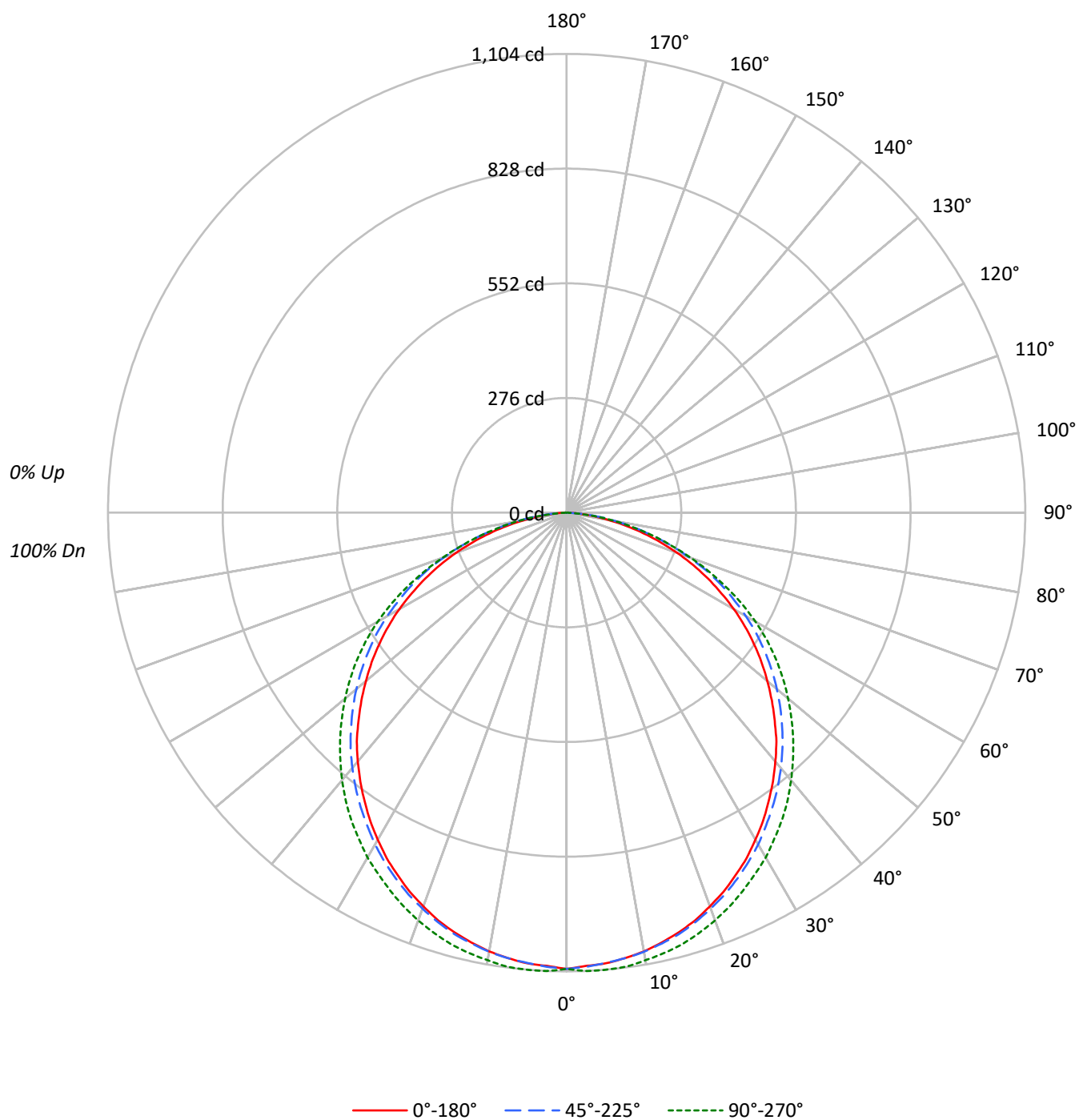
Lumens per Lamp: N/A
Luminaire Lumens: 3163.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	3700	3700	3700
5°	3683	3679	3735
10°	3669	3672	3743
15°	3646	3661	3751
20°	3615	3637	3745
25°	3579	3613	3733
30°	3536	3589	3729
35°	3487	3556	3717
40°	3438	3529	3698
45°	3375	3498	3675
50°	3306	3463	3648
55°	3232	3420	3614
60°	3136	3359	3540
65°	2992	3273	3380
70°	2791	3087	3138
75°	2491	2786	2813
80°	2026	2348	2327
85°	1318	1639	1280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.3
10°-20°	298.0	9.4
20°-30°	451.4	14.3
30°-40°	545.2	17.2
40°-50°	569.6	18.0
50°-60°	521.6	16.5
60°-70°	400.8	12.7
70°-80°	223.1	7.1
80°-90°	49.4	1.6
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	27.0
0°-40°	1398.6	44.2
0°-60°	2489.7	78.7
0°-90°	3163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1089	1100	1088	1094	1104	103
15°	1045	1056	1050	1060	1075	295
25°	963	974	972	986	1004	444
35°	848	860	864	885	904	531
45°	708	724	734	756	771	547
55°	550	568	582	603	615	492
65°	375	395	410	419	424	371
75°	191	211	214	214	216	203
85°	34	40	42	35	33	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.1	1098.1	1098.1	1098.1	1098.1
2.5°	1091.9	1102.2	1093.9	1097.0	1104.3
5°	1088.8	1100.1	1087.7	1093.9	1104.3
7.5°	1081.5	1091.9	1081.5	1088.8	1102.2
10°	1072.2	1083.6	1073.3	1080.5	1093.9
12.5°	1059.8	1069.1	1061.9	1072.2	1085.7
15°	1045.3	1055.7	1049.5	1059.8	1075.3
17.5°	1028.8	1038.1	1032.9	1046.4	1060.8
20°	1008.1	1018.5	1014.3	1027.8	1044.3
22.5°	987.4	997.8	994.7	1008.1	1025.7
25°	962.6	974.0	971.9	986.4	1004.0
27.5°	937.8	949.2	948.1	964.7	981.2
30°	908.9	920.2	922.3	939.9	958.5
32.5°	879.9	892.3	893.3	913.0	930.6
35°	847.8	860.3	864.4	885.1	903.7
37.5°	815.8	828.2	834.4	854.1	873.7
40°	781.7	795.1	802.4	823.0	840.6
42.5°	747.6	761.0	769.3	789.9	806.5
45°	708.3	723.8	734.1	755.8	771.3
47.5°	670.0	686.6	697.9	718.6	734.1
50°	630.7	648.3	660.7	681.4	695.9
52.5°	591.4	610.0	622.4	642.1	656.6
55°	550.1	567.6	582.1	602.8	615.2
57.5°	508.7	526.3	541.8	560.4	571.8
60°	465.3	483.9	498.4	517.0	525.3
62.5°	419.8	439.4	453.9	468.4	475.6
65°	375.3	395.0	410.5	418.8	423.9
67.5°	329.8	349.5	364.0	368.1	371.2
70°	283.3	303.0	313.3	315.4	318.5
72.5°	236.8	256.4	264.7	264.7	265.7
75°	191.3	210.9	214.0	214.0	216.1
77.5°	146.8	164.4	166.5	166.5	166.5
80°	104.4	117.9	121.0	121.0	119.9
82.5°	66.2	75.5	80.6	76.5	74.4
85°	34.1	40.3	42.4	35.2	33.1
87.5°	10.3	12.4	10.3	6.2	5.2
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	16.29	17.94	16.65	18.25	18.57	16.80	18.44	17.16	18.76	19.07
	3H	18.06	19.55	18.44	19.88	20.24	18.59	20.08	18.97	20.41	20.77
	4H	18.68	20.09	19.08	20.44	20.81	19.22	20.63	19.62	20.98	21.35
	6H	19.09	20.39	19.50	20.75	21.14	19.65	20.95	20.06	21.31	21.70
	8H	19.19	20.43	19.61	20.82	21.22	19.75	20.99	20.17	21.38	21.78
	12H	19.23	20.42	19.66	20.80	21.23	19.79	20.98	20.22	21.36	21.79
4H	2H	17.01	18.42	17.41	18.76	19.14	17.41	18.81	17.80	19.16	19.53
	3H	19.00	20.18	19.41	20.58	20.98	19.42	20.60	19.83	20.99	21.39
	4H	19.76	20.83	20.19	21.24	21.67	20.17	21.24	20.60	21.65	22.08
	6H	20.28	21.21	20.74	21.65	22.11	20.71	21.64	21.16	22.08	22.53
	8H	20.42	21.29	20.88	21.73	22.19	20.85	21.72	21.31	22.16	22.63
	12H	20.49	21.27	20.97	21.75	22.22	20.92	21.70	21.40	22.17	22.64
8H	4H	20.09	20.96	20.55	21.41	21.87	20.46	21.33	20.92	21.77	22.23
	6H	20.73	21.45	21.22	21.94	22.41	21.10	21.82	21.59	22.31	22.78
	8H	20.92	21.57	21.43	22.07	22.56	21.29	21.94	21.80	22.45	22.93
	12H	21.04	21.61	21.55	22.10	22.66	21.40	21.97	21.91	22.46	23.02
12H	4H	20.13	20.91	20.61	21.38	21.85	20.48	21.26	20.96	21.74	22.21
	6H	20.78	21.43	21.29	21.93	22.42	21.14	21.79	21.65	22.29	22.78
	8H	21.02	21.59	21.53	22.08	22.64	21.38	21.95	21.89	22.44	23.00