

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: P1584518

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-32HE-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

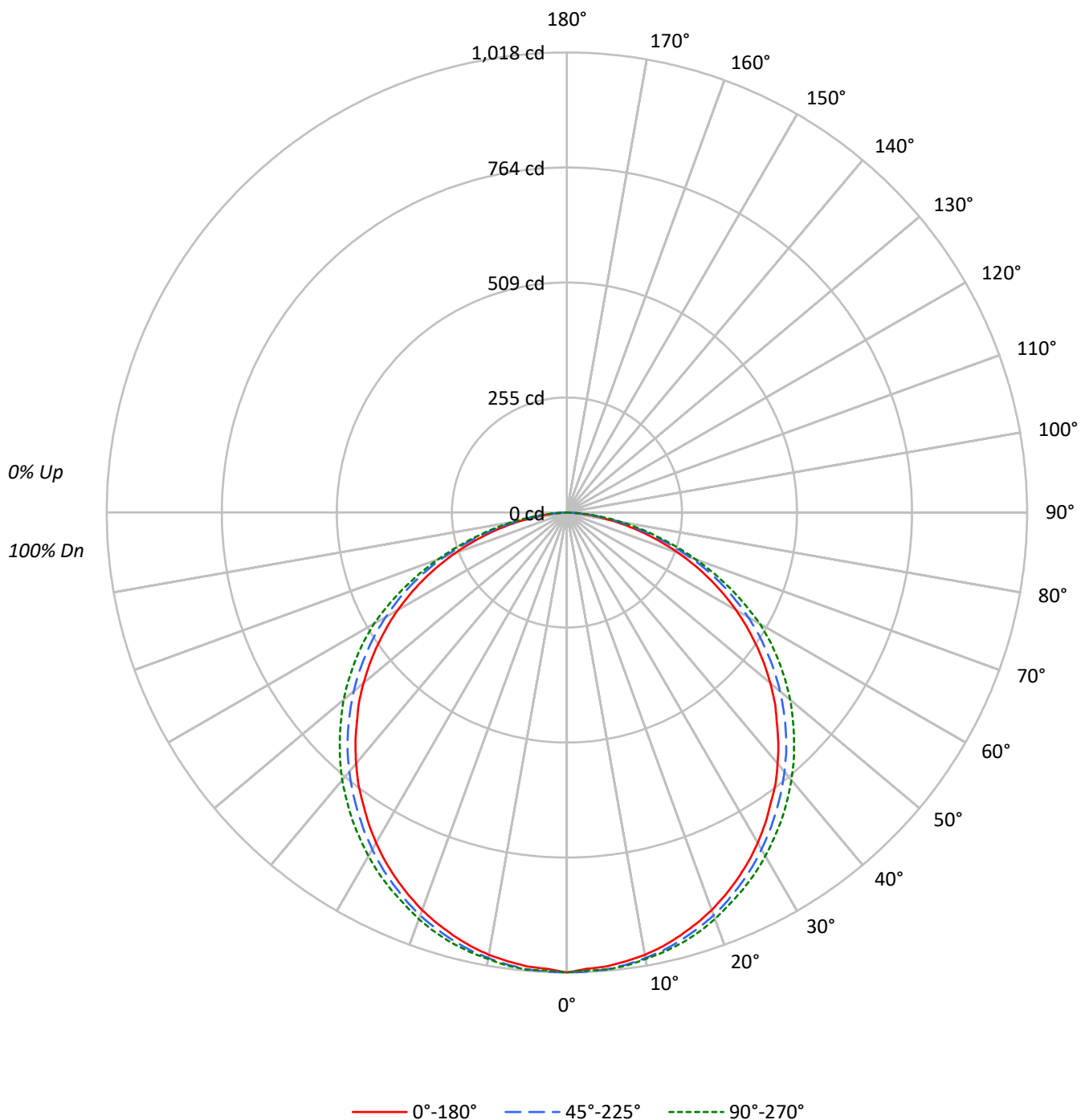
Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3429	3429	3429
5°	3410	3432	3435
10°	3400	3426	3433
15°	3381	3416	3440
20°	3357	3402	3433
25°	3323	3376	3423
30°	3285	3350	3415
35°	3233	3320	3409
40°	3190	3293	3400
45°	3130	3265	3386
50°	3078	3225	3380
55°	3004	3180	3358
60°	2913	3117	3324
65°	2783	3031	3187
70°	2594	2863	2991
75°	2317	2582	2729
80°	1900	2177	2387
85°	1272	1589	1775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.3
10°-20°	276.3	9.4
20°-30°	418.4	14.2
30°-40°	505.2	17.2
40°-50°	528.0	17.9
50°-60°	483.8	16.4
60°-70°	373.5	12.7
70°-80°	210.1	7.1
80°-90°	50.3	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°	791.1	26.9
0°-40°	1296.3	44.1
0°-60°	2308.2	78.5
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1008	1016	1015	1016	1016	96
15°	969	977	979	983	986	273
25°	894	902	908	913	921	412
35°	786	796	807	818	829	492
45°	657	670	685	699	711	508
55°	511	525	541	558	572	457
65°	349	364	380	395	400	345
75°	178	194	198	207	210	189
85°	33	38	41	45	46	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.6	1017.6	1017.6	1017.6	1017.6
2.5°	1010.7	1018.5	1016.8	1019.4	1014.6
5°	1008.1	1015.5	1014.6	1015.5	1015.5
7.5°	1001.6	1009.4	1009.0	1010.3	1011.1
10°	993.8	1001.2	1001.2	1002.5	1003.4
12.5°	983.0	990.8	991.7	993.8	995.6
15°	969.1	976.9	979.1	983.0	986.0
17.5°	953.6	961.8	965.2	969.1	973.0
20°	936.2	943.6	948.8	951.8	957.4
22.5°	915.9	924.1	929.7	932.8	938.8
25°	893.8	901.6	908.1	912.8	920.6
27.5°	870.4	878.2	886.0	891.6	900.7
30°	844.4	852.7	860.9	869.5	877.8
32.5°	816.3	825.8	834.9	844.4	853.5
35°	786.0	795.9	807.2	818.0	828.8
37.5°	757.8	766.9	778.6	790.3	801.1
40°	725.3	735.3	748.7	761.7	773.0
42.5°	692.4	703.3	718.0	730.5	742.7
45°	656.9	669.9	685.1	698.9	710.6
47.5°	624.0	635.3	650.4	665.6	677.7
50°	587.2	599.8	615.3	631.4	644.8
52.5°	550.0	562.9	579.0	595.0	608.9
55°	511.4	524.8	541.3	558.2	571.6
57.5°	472.0	486.3	503.2	520.1	533.5
60°	432.2	446.5	462.5	481.1	493.2
62.5°	390.6	406.6	421.8	439.1	446.5
65°	349.0	364.2	380.2	395.4	399.7
67.5°	306.6	322.2	336.5	346.4	352.1
70°	263.3	280.2	290.6	300.1	303.6
72.5°	220.4	237.3	243.4	252.5	255.9
75°	178.0	194.4	198.3	206.6	209.6
77.5°	136.8	152.0	153.3	162.8	165.4
80°	97.9	110.0	112.2	121.3	123.0
82.5°	62.8	71.5	74.5	82.3	84.9
85°	32.9	37.7	41.1	45.0	45.9
87.5°	10.8	13.4	11.3	11.7	10.8
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	15.99	17.64	16.36	17.96	18.27	16.53	18.18	16.90	18.50	18.81
	3H	17.77	19.26	18.15	19.59	19.95	18.39	19.88	18.77	20.21	20.57
	4H	18.40	19.80	18.79	20.15	20.53	19.06	20.47	19.46	20.81	21.19
	6H	18.80	20.11	19.21	20.47	20.86	19.54	20.84	19.95	21.20	21.60
	8H	18.91	20.15	19.33	20.54	20.94	19.68	20.93	20.11	21.32	21.72
	12H	18.96	20.15	19.39	20.53	20.96	19.77	20.96	20.19	21.34	21.77
4H	2H	16.72	18.13	17.12	18.47	18.85	17.14	18.55	17.54	18.89	19.27
	3H	18.71	19.89	19.12	20.29	20.69	19.21	20.39	19.62	20.79	21.19
	4H	19.47	20.54	19.90	20.95	21.39	20.01	21.08	20.44	21.49	21.92
	6H	20.00	20.93	20.45	21.37	21.83	20.61	21.54	21.06	21.99	22.44
	8H	20.14	21.01	20.60	21.45	21.92	20.80	21.68	21.26	22.12	22.58
	12H	20.22	21.00	20.70	21.48	21.95	20.92	21.71	21.40	22.18	22.65
8H	4H	19.81	20.68	20.27	21.12	21.59	20.28	21.16	20.74	21.60	22.06
	6H	20.45	21.17	20.94	21.66	22.14	21.00	21.72	21.49	22.21	22.69
	8H	20.65	21.30	21.16	21.80	22.29	21.25	21.91	21.76	22.41	22.90
	12H	20.78	21.35	21.28	21.84	22.40	21.44	22.01	21.94	22.50	23.06
12H	4H	19.84	20.63	20.32	21.10	21.57	20.31	21.09	20.79	21.57	22.04
	6H	20.50	21.15	21.01	21.66	22.15	21.03	21.69	21.54	22.19	22.68
	8H	20.75	21.33	21.26	21.82	22.38	21.34	21.92	21.85	22.41	22.97