

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: P1586335

Luminaire Tested: 22CZSP-33HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-33HE-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

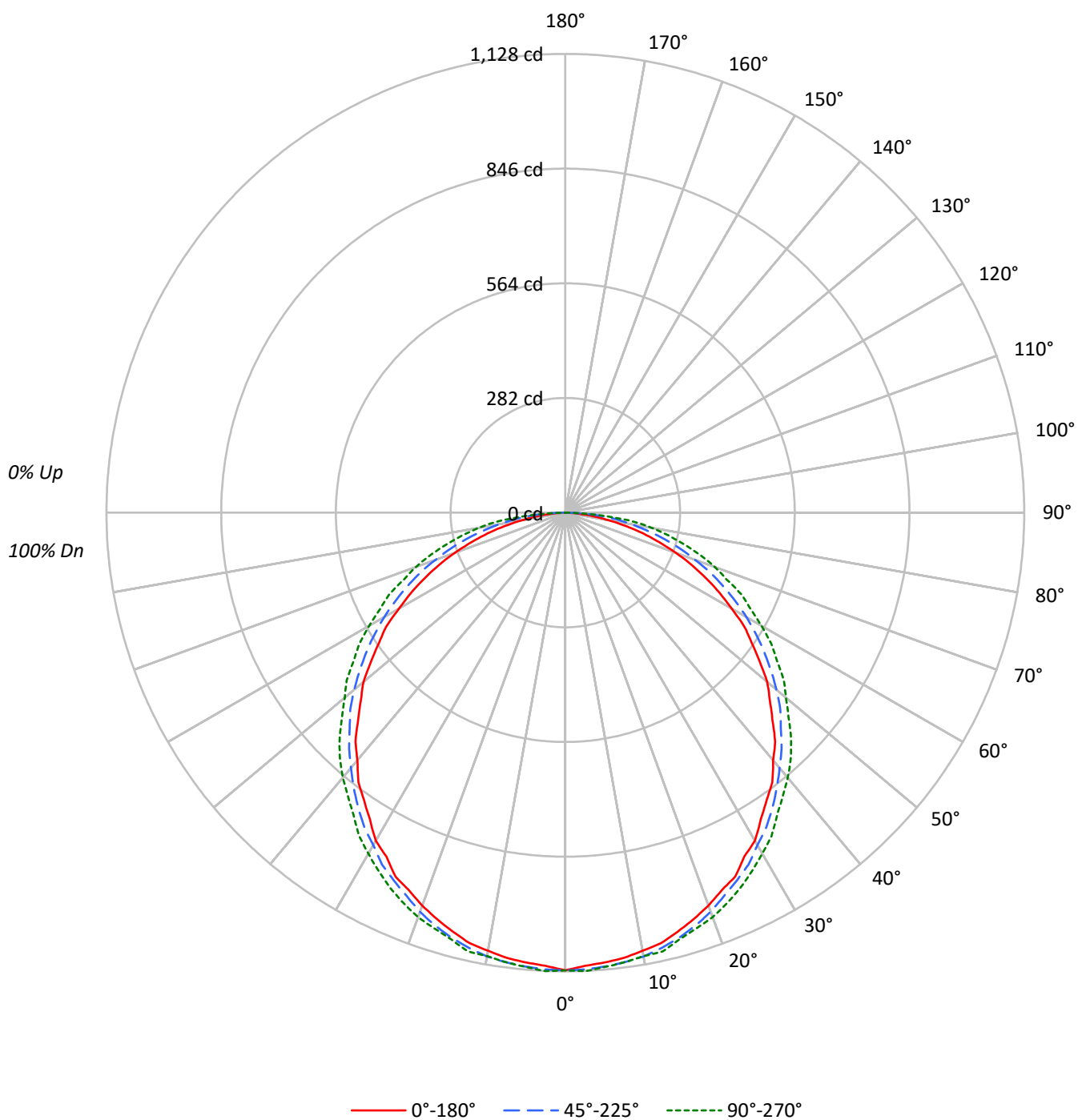
Lumens per Lamp: N/A
Luminaire Lumens: 3315.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3524	3524	3524
5°	3490	3522	3525
10°	3479	3524	3520
15°	3458	3507	3520
20°	3426	3480	3528
25°	3412	3447	3517
30°	3369	3413	3501
35°	3299	3391	3469
40°	3249	3349	3477
45°	3188	3318	3475
50°	3156	3299	3448
55°	3056	3255	3465
60°	2953	3220	3486
65°	2824	3170	3546
70°	2655	3110	3583
75°	2392	3055	3656
80°	1957	2999	3895
85°	1275	2986	3643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.2
10°-20°	304.6	9.2
20°-30°	460.4	13.9
30°-40°	555.3	16.8
40°-50°	580.5	17.5
50°-60°	535.3	16.1
60°-70°	424.2	12.8
70°-80°	265.2	8.0
80°-90°	83.2	2.5
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°	871.4	26.3
0°-40°	1426.7	43.0
0°-60°	2542.5	76.7
0°-90°	3315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1110	1115	1120	1124	1121	106
15°	1067	1072	1082	1089	1086	301
25°	988	984	998	1012	1018	453
35°	863	873	887	902	908	541
45°	720	730	749	769	785	557
55°	560	573	596	629	635	502
65°	381	398	428	461	479	378
75°	198	214	252	288	302	208
85°	36	51	83	97	101	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.5	1125.5	1125.5	1125.5	1125.5
2.5°	1115.3	1120.4	1124.5	1123.4	1128.5
5°	1110.3	1115.3	1120.4	1124.5	1121.4
7.5°	1104.2	1109.3	1115.3	1121.4	1115.3
10°	1094.0	1097.1	1108.2	1109.3	1107.2
12.5°	1084.9	1088.0	1096.1	1103.2	1105.2
15°	1066.7	1071.7	1081.9	1089.0	1085.9
17.5°	1048.4	1055.5	1064.6	1071.7	1071.7
20°	1028.1	1033.2	1044.4	1049.4	1058.6
22.5°	1004.8	1010.9	1020.0	1034.2	1039.3
25°	987.6	984.5	997.7	1011.9	1018.0
27.5°	953.1	957.2	975.4	988.6	993.7
30°	931.8	933.8	944.0	962.2	968.3
32.5°	894.3	900.4	918.6	931.8	943.0
35°	862.9	873.0	887.2	902.4	907.5
37.5°	835.5	837.5	853.7	874.0	878.1
40°	794.9	807.1	819.3	844.6	850.7
42.5°	763.5	769.6	786.8	811.2	820.3
45°	719.9	730.0	749.3	768.6	784.8
47.5°	681.4	691.5	716.9	741.2	744.2
50°	647.9	652.0	677.3	704.7	707.7
52.5°	602.3	612.4	636.8	667.2	677.3
55°	559.7	572.9	596.2	628.6	634.7
57.5°	522.2	528.3	555.6	588.1	600.3
60°	471.5	488.7	514.1	545.5	556.7
62.5°	427.9	444.1	471.5	500.9	513.1
65°	381.2	397.5	427.9	461.3	478.6
67.5°	336.6	349.8	386.3	420.8	428.9
70°	290.0	305.2	339.7	375.2	391.4
72.5°	241.3	258.6	297.1	330.5	347.8
75°	197.7	213.9	252.5	288.0	302.2
77.5°	152.1	170.3	207.9	243.3	259.6
80°	108.5	126.7	166.3	201.8	216.0
82.5°	70.0	89.2	126.7	158.2	170.3
85°	35.5	50.7	83.1	97.3	101.4
87.5°	11.2	18.3	28.4	32.4	32.4
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	15.90	17.57	16.27	17.88	18.20	16.69	18.36	17.06	18.67	18.99
	3H	17.68	19.20	18.06	19.52	19.88	18.83	20.35	19.21	20.67	21.03
	4H	18.32	19.75	18.72	20.10	20.47	19.76	21.19	20.16	21.53	21.91
	6H	18.75	20.07	19.16	20.44	20.83	20.58	21.91	20.99	22.27	22.66
	8H	18.86	20.13	19.28	20.52	20.91	20.93	22.20	21.35	22.59	22.98
	12H	18.91	20.13	19.34	20.51	20.94	21.17	22.39	21.60	22.77	23.20
4H	2H	16.67	18.10	17.07	18.45	18.82	17.29	18.72	17.69	19.06	19.44
	3H	18.68	19.89	19.09	20.28	20.68	19.67	20.88	20.08	21.27	21.67
	4H	19.45	20.54	19.88	20.95	21.38	20.76	21.85	21.19	22.27	22.70
	6H	19.99	20.95	20.44	21.39	21.84	21.76	22.72	22.21	23.16	23.61
	8H	20.15	21.05	20.61	21.49	21.95	22.19	23.08	22.64	23.52	23.99
	12H	20.24	21.05	20.71	21.52	21.99	22.50	23.31	22.98	23.78	24.25
8H	4H	19.93	20.82	20.38	21.26	21.73	21.07	21.97	21.53	22.41	22.87
	6H	20.61	21.36	21.11	21.85	22.32	22.23	22.98	22.72	23.47	23.94
	8H	20.84	21.52	21.35	22.02	22.51	22.78	23.45	23.28	23.96	24.44
	12H	20.99	21.59	21.50	22.08	22.63	23.21	23.80	23.71	24.29	24.85
12H	4H	20.02	20.83	20.50	21.30	21.77	21.10	21.91	21.58	22.38	22.85
	6H	20.76	21.44	21.27	21.94	22.43	22.29	22.96	22.80	23.47	23.95
	8H	21.07	21.66	21.57	22.15	22.71	22.91	23.50	23.41	23.99	24.55