

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: P1586339

Luminaire Tested: 22CZSP-33HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586339
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

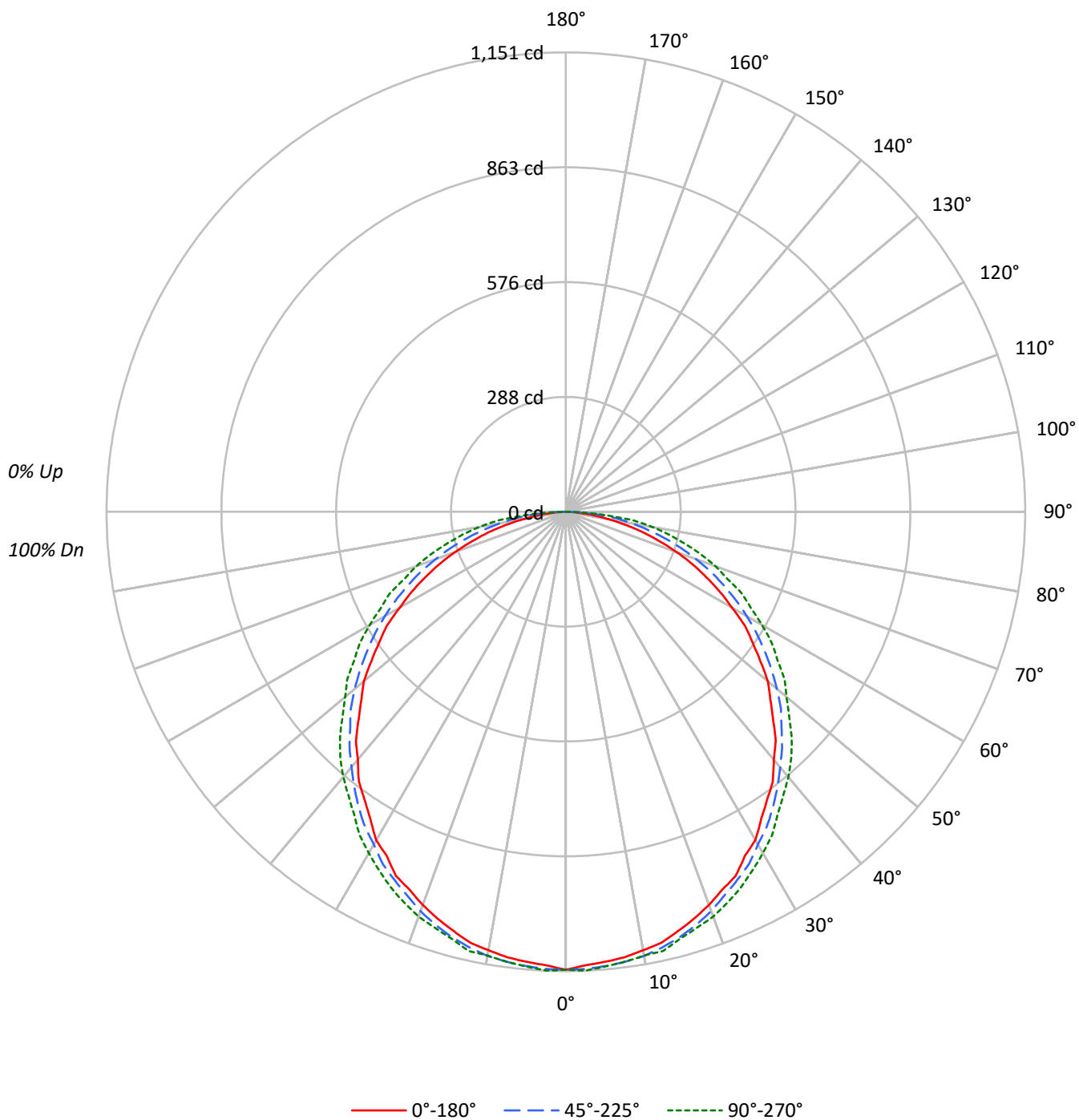
Lumens per Lamp: N/A
Luminaire Lumens: 3380.0 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3593	3593	3593
5°	3558	3591	3594
10°	3547	3593	3589
15°	3526	3576	3589
20°	3493	3548	3597
25°	3479	3515	3586
30°	3435	3480	3570
35°	3363	3458	3537
40°	3313	3414	3546
45°	3250	3383	3544
50°	3218	3364	3515
55°	3116	3319	3533
60°	3010	3282	3555
65°	2880	3233	3616
70°	2707	3171	3654
75°	2439	3114	3728
80°	1994	3057	3971
85°	1301	3047	3715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.2
10°-20°	310.6	9.2
20°-30°	469.4	13.9
30°-40°	566.2	16.8
40°-50°	591.9	17.5
50°-60°	545.8	16.1
60°-70°	432.5	12.8
70°-80°	270.4	8.0
80°-90°	84.8	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°	888.5	26.3
0°-40°	1454.6	43.0
0°-60°	2592.3	76.7
0°-90°	3380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1132	1137	1142	1146	1143	108
15°	1088	1093	1103	1110	1107	307
25°	1007	1004	1017	1032	1038	462
35°	880	890	905	920	925	552
45°	734	744	764	784	800	568
55°	571	584	608	641	647	512
65°	389	405	436	470	488	385
75°	202	218	257	294	308	212
85°	36	52	85	99	103	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.5	1147.5	1147.5	1147.5	1147.5
2.5°	1137.2	1142.4	1146.5	1145.5	1150.6
5°	1132.0	1137.2	1142.4	1146.5	1143.4
7.5°	1125.8	1131.0	1137.2	1143.4	1137.2
10°	1115.5	1118.6	1130.0	1131.0	1128.9
12.5°	1106.2	1109.3	1117.6	1124.8	1126.9
15°	1087.6	1092.7	1103.1	1110.3	1107.2
17.5°	1069.0	1076.2	1085.5	1092.7	1092.7
20°	1048.3	1053.5	1064.8	1070.0	1079.3
22.5°	1024.5	1030.7	1040.0	1054.5	1059.7
25°	1006.9	1003.8	1017.3	1031.8	1038.0
27.5°	971.8	975.9	994.5	1008.0	1013.1
30°	950.1	952.1	962.5	981.1	987.3
32.5°	911.8	918.0	936.6	950.1	961.5
35°	879.8	890.1	904.6	920.1	925.3
37.5°	851.9	853.9	870.5	891.2	895.3
40°	810.5	822.9	835.3	861.2	867.4
42.5°	778.5	784.7	802.2	827.1	836.4
45°	734.0	744.4	764.0	783.6	800.2
47.5°	694.7	705.1	730.9	755.7	758.8
50°	660.6	664.7	690.6	718.5	721.6
52.5°	614.1	624.4	649.2	680.3	690.6
55°	570.7	584.1	607.9	641.0	647.2
57.5°	532.4	538.6	566.5	599.6	612.0
60°	480.7	498.3	524.1	556.2	567.6
62.5°	436.3	452.8	480.7	510.7	523.1
65°	388.7	405.3	436.3	470.4	488.0
67.5°	343.2	356.7	393.9	429.0	437.3
70°	295.7	311.2	346.3	382.5	399.1
72.5°	246.0	263.6	302.9	337.0	354.6
75°	201.6	218.1	257.4	293.6	308.1
77.5°	155.1	173.7	211.9	248.1	264.7
80°	110.6	129.2	169.5	205.7	220.2
82.5°	71.3	91.0	129.2	161.3	173.7
85°	36.2	51.7	84.8	99.2	103.4
87.5°	11.4	18.6	28.9	33.1	33.1
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	15.97	17.64	16.33	17.95	18.26	16.76	18.43	17.12	18.74	19.05
	3H	17.75	19.26	18.13	19.59	19.95	18.90	20.41	19.28	20.74	21.10
	4H	18.39	19.82	18.79	20.16	20.54	19.83	21.25	20.22	21.60	21.98
	6H	18.81	20.14	19.22	20.50	20.89	20.65	21.98	21.06	22.34	22.73
	8H	18.93	20.19	19.35	20.58	20.98	21.00	22.27	21.42	22.65	23.05
	12H	18.98	20.20	19.41	20.58	21.01	21.24	22.46	21.67	22.84	23.27
4H	2H	16.74	18.17	17.14	18.52	18.89	17.35	18.78	17.75	19.13	19.50
	3H	18.75	19.96	19.16	20.35	20.75	19.74	20.94	20.15	21.34	21.74
	4H	19.51	20.60	19.94	21.02	21.45	20.83	21.92	21.26	22.33	22.77
	6H	20.06	21.02	20.51	21.46	21.91	21.83	22.78	22.28	23.22	23.68
	8H	20.21	21.11	20.67	21.55	22.02	22.25	23.15	22.71	23.59	24.06
	12H	20.30	21.11	20.78	21.59	22.05	22.57	23.38	23.04	23.85	24.32
8H	4H	19.99	20.89	20.45	21.33	21.80	21.14	22.03	21.59	22.47	22.94
	6H	20.68	21.43	21.17	21.92	22.39	22.30	23.05	22.79	23.54	24.01
	8H	20.91	21.58	21.42	22.09	22.57	22.84	23.52	23.35	24.02	24.51
	12H	21.06	21.65	21.56	22.14	22.70	23.27	23.87	23.78	24.36	24.92
12H	4H	20.09	20.90	20.57	21.37	21.84	21.16	21.97	21.64	22.45	22.92
	6H	20.83	21.51	21.34	22.01	22.49	22.36	23.03	22.86	23.54	24.02
	8H	21.13	21.73	21.64	22.22	22.78	22.97	23.57	23.48	24.06	24.62