

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: P1586578

Luminaire Tested: 22CZSP-A-33HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-33HE-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

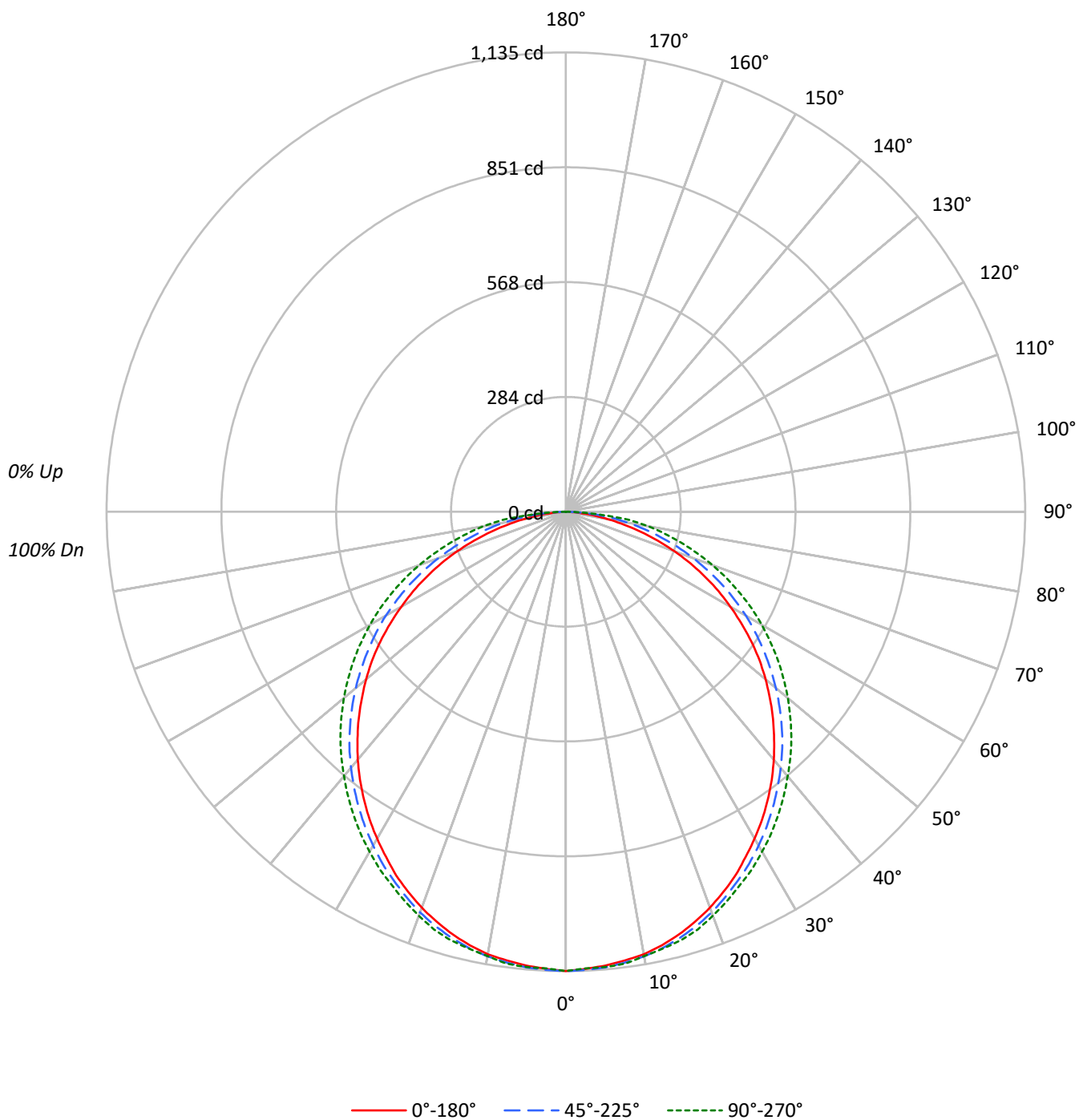
Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3553	3553	3553
5°	3537	3551	3549
10°	3530	3546	3543
15°	3504	3533	3554
20°	3469	3510	3539
25°	3426	3474	3516
30°	3372	3443	3507
35°	3323	3410	3496
40°	3269	3376	3486
45°	3207	3342	3490
50°	3138	3300	3488
55°	3056	3254	3492
60°	2941	3219	3501
65°	2806	3156	3512
70°	2616	3068	3528
75°	2330	2946	3562
80°	1928	2806	3736
85°	1254	2533	3266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.2
10°-20°	307.3	9.3
20°-30°	463.5	14.0
30°-40°	558.2	16.8
40°-50°	583.0	17.6
50°-60°	535.4	16.2
60°-70°	421.7	12.7
70°-80°	258.7	7.8
80°-90°	77.9	2.4
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°	878.1	26.5
0°-40°	1436.3	43.4
0°-60°	2554.7	77.1
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1125	1127	1130	1133	1129	107
15°	1081	1083	1090	1096	1096	305
25°	992	994	1005	1018	1018	456
35°	869	874	892	910	914	544
45°	724	732	755	781	788	558
55°	560	570	596	630	640	500
65°	379	392	426	462	474	375
75°	193	208	244	282	294	204
85°	35	48	70	89	91	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.8	1134.8	1134.8	1134.8	1134.8
2.5°	1130.4	1132.6	1133.3	1134.1	1129.0
5°	1125.3	1126.8	1129.7	1133.3	1129.0
7.5°	1118.1	1119.5	1123.2	1128.2	1126.1
10°	1110.1	1110.8	1115.2	1118.8	1114.4
12.5°	1097.0	1099.2	1104.3	1107.2	1105.7
15°	1081.0	1083.2	1089.7	1096.3	1096.3
17.5°	1062.1	1065.0	1073.0	1081.7	1082.4
20°	1041.0	1043.2	1053.4	1062.1	1062.1
22.5°	1017.0	1019.9	1030.1	1039.6	1041.0
25°	991.6	993.8	1005.4	1017.7	1017.7
27.5°	961.8	966.1	980.7	993.0	995.9
30°	932.7	936.3	952.3	967.6	969.8
32.5°	902.2	906.5	923.2	940.0	943.6
35°	869.4	873.8	892.0	910.2	914.5
37.5°	835.3	840.4	859.3	880.4	884.7
40°	799.7	805.5	825.8	848.4	852.7
42.5°	761.9	769.9	791.7	814.9	821.5
45°	724.1	732.1	754.6	780.8	788.0
47.5°	684.1	693.5	716.8	744.4	752.4
50°	644.1	653.5	677.5	707.3	716.1
52.5°	603.4	612.8	637.5	668.8	678.3
55°	559.8	569.9	596.1	629.6	639.7
57.5°	514.7	527.8	555.4	589.6	599.7
60°	469.6	482.7	514.0	547.4	559.0
62.5°	425.3	437.6	469.6	505.2	517.6
65°	378.7	391.8	426.0	461.6	474.0
67.5°	332.9	346.0	380.2	417.3	430.4
70°	285.7	300.2	335.1	372.2	385.3
72.5°	238.4	253.7	289.3	327.1	339.5
75°	192.6	207.9	243.5	282.1	294.4
77.5°	147.6	164.3	199.2	238.4	250.1
80°	106.9	122.9	155.6	194.1	207.2
82.5°	68.3	82.1	114.9	151.2	160.7
85°	34.9	48.0	70.5	89.4	90.9
87.5°	10.9	15.3	23.3	34.9	35.6
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	15.88	17.55	16.25	17.86	18.17	16.71	18.38	17.08	18.69	19.00
	3H	17.64	19.15	18.02	19.47	19.83	18.83	20.34	19.21	20.66	21.02
	4H	18.26	19.68	18.65	20.03	20.40	19.72	21.14	20.12	21.49	21.86
	6H	18.67	19.99	19.08	20.35	20.74	20.50	21.82	20.91	22.18	22.57
	8H	18.78	20.04	19.20	20.43	20.82	20.82	22.08	21.24	22.47	22.87
	12H	18.83	20.04	19.26	20.42	20.85	21.03	22.24	21.46	22.62	23.05
4H	2H	16.66	18.08	17.05	18.42	18.80	17.30	18.72	17.70	19.07	19.45
	3H	18.63	19.83	19.04	20.23	20.63	19.66	20.85	20.07	21.25	21.65
	4H	19.37	20.46	19.80	20.87	21.30	20.71	21.79	21.14	22.21	22.64
	6H	19.90	20.85	20.35	21.29	21.74	21.66	22.61	22.11	23.05	23.51
	8H	20.04	20.94	20.50	21.38	21.84	22.06	22.95	22.52	23.39	23.86
	12H	20.13	20.93	20.61	21.41	21.87	22.34	23.14	22.81	23.61	24.08
8H	4H	19.83	20.72	20.29	21.16	21.63	21.00	21.89	21.46	22.33	22.80
	6H	20.49	21.23	20.98	21.72	22.19	22.11	22.85	22.60	23.34	23.81
	8H	20.70	21.37	21.21	21.87	22.36	22.62	23.29	23.13	23.79	24.28
	12H	20.84	21.43	21.34	21.92	22.48	23.01	23.60	23.51	24.09	24.65
12H	4H	19.92	20.72	20.40	21.20	21.66	21.02	21.83	21.50	22.30	22.77
	6H	20.62	21.29	21.13	21.80	22.28	22.16	22.83	22.66	23.33	23.82
	8H	20.90	21.49	21.40	21.98	22.54	22.73	23.33	23.24	23.82	24.37