

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: P1587616

Luminaire Tested: 22CZSP-SB-33HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-33HE-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

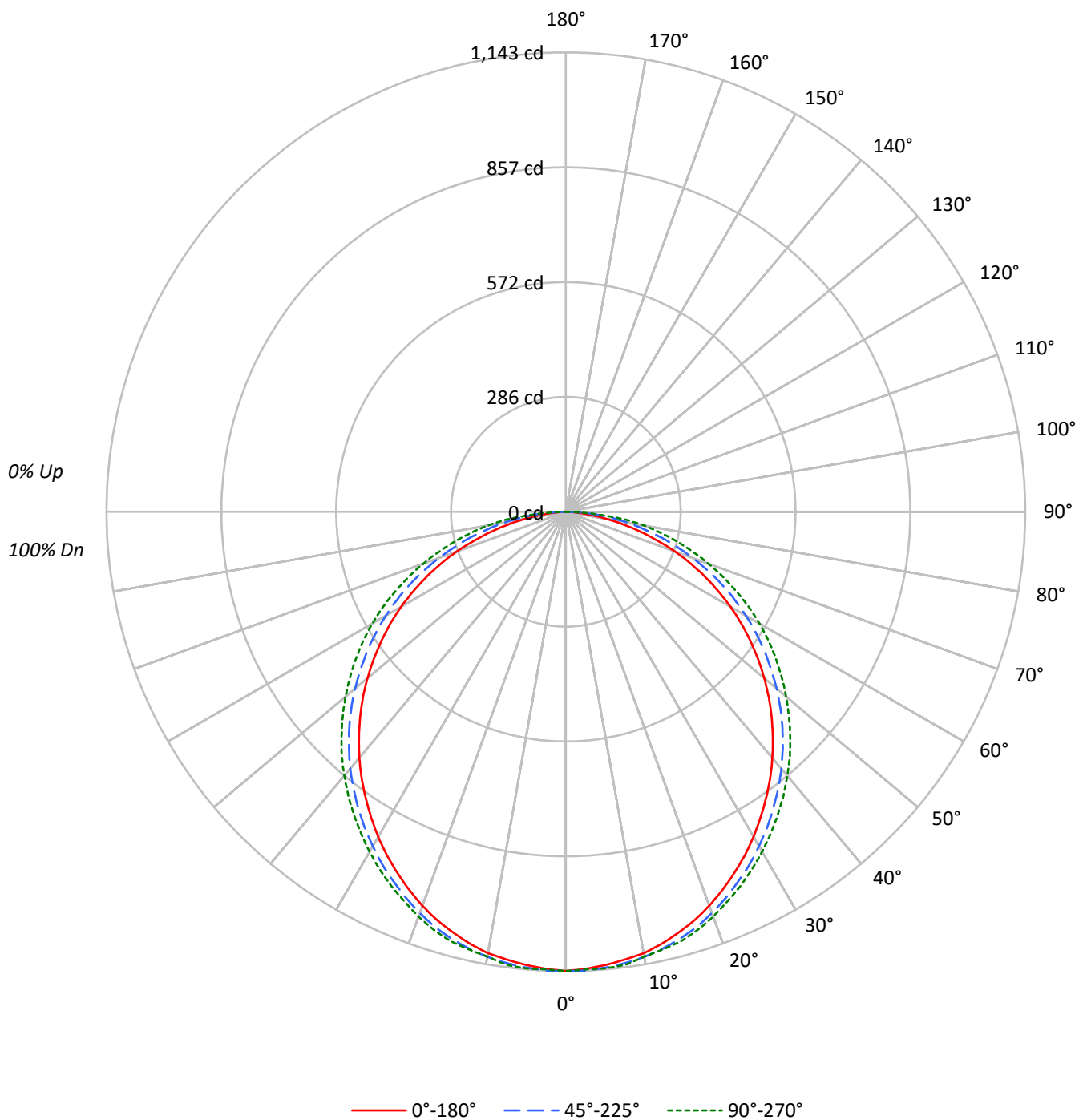
Lumens per Lamp: N/A
Luminaire Lumens: 3324.0 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1587616

CATALOG NUMBER: 22CZSP-SB-33HE-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587616

CATALOG NUMBER: 22CZSP-SB-33HE-L840-S

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3578	3578	3578
5°	3558	3578	3585
10°	3547	3576	3574
15°	3514	3565	3586
20°	3477	3541	3572
25°	3427	3506	3550
30°	3377	3475	3532
35°	3321	3442	3515
40°	3268	3411	3505
45°	3208	3376	3496
50°	3139	3334	3487
55°	3060	3291	3482
60°	2965	3242	3484
65°	2829	3173	3465
70°	2645	3077	3457
75°	2345	2959	3469
80°	1908	2811	3572
85°	1232	2594	3083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3620 cd/sqm

TEST NUMBER: P1587616

CATALOG NUMBER: 22CZSP-SB-33HE-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.3
10°-20°	309.7	9.3
20°-30°	466.9	14.0
30°-40°	561.8	16.9
40°-50°	586.0	17.6
50°-60°	537.1	16.2
60°-70°	421.8	12.7
70°-80°	256.7	7.7
80°-90°	75.9	2.3
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°	884.7	26.6
0°-40°	1446.5	43.5
0°-60°	2569.6	77.3
0°-90°	3324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1132	1139	1138	1137	1140	108
15°	1084	1095	1100	1101	1106	306
25°	992	1005	1015	1021	1028	457
35°	869	882	900	913	920	544
45°	724	739	762	780	789	559
55°	561	575	603	627	638	501
65°	382	396	428	457	468	378
75°	194	212	245	274	287	205
85°	34	49	72	81	86	45
90°	0	0	0	0	0	

TEST NUMBER: P1587616

CATALOG NUMBER: 22CZSP-SB-33HE-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1138.4	1144.1	1142.7	1137.7	1139.8
5°	1132.0	1139.1	1138.4	1137.0	1140.5
7.5°	1124.1	1132.0	1132.7	1132.7	1137.0
10°	1115.5	1123.4	1124.8	1122.7	1124.1
12.5°	1101.2	1110.5	1113.4	1113.4	1115.5
15°	1084.0	1094.8	1099.8	1101.2	1106.2
17.5°	1065.4	1076.9	1083.3	1086.9	1091.2
20°	1043.3	1055.4	1062.6	1066.9	1071.9
22.5°	1018.3	1031.8	1039.7	1044.0	1049.7
25°	991.8	1005.4	1014.7	1021.1	1027.6
27.5°	963.9	976.8	989.7	997.5	1003.2
30°	933.9	947.5	961.0	971.1	976.8
32.5°	901.7	916.0	931.7	942.5	948.9
35°	868.8	882.4	900.3	913.1	919.6
37.5°	835.2	849.5	868.1	881.7	889.5
40°	799.4	814.5	834.5	849.5	857.4
42.5°	762.3	776.6	798.7	815.9	825.2
45°	724.4	739.4	762.3	780.1	789.4
47.5°	685.0	699.3	724.4	745.1	753.0
50°	644.3	657.9	684.3	706.5	715.8
52.5°	602.8	617.1	643.6	667.2	677.2
55°	560.6	574.9	602.8	627.1	637.8
57.5°	517.7	532.0	560.6	585.6	598.5
60°	473.4	487.7	517.7	543.5	556.3
62.5°	427.6	442.6	473.4	499.8	513.4
65°	381.8	396.1	428.3	456.9	467.7
67.5°	336.1	350.4	381.8	410.4	423.3
70°	288.9	305.3	336.1	366.1	377.6
72.5°	239.5	258.1	288.9	320.3	331.8
75°	193.8	211.7	244.6	273.9	286.7
77.5°	148.7	168.0	198.8	228.8	241.7
80°	105.8	124.4	155.9	184.5	198.1
82.5°	67.2	83.7	115.1	140.9	150.9
85°	34.3	48.6	72.2	80.8	85.8
87.5°	10.0	17.2	25.7	32.2	35.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587616

CATALOG NUMBER: 22CZSP-SB-33HE-L840-S

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	15.93	17.59	16.29	17.90	18.22	16.66	18.32	17.03	18.64	18.95
	3H	17.70	19.20	18.07	19.53	19.89	18.74	20.25	19.12	20.57	20.93
	4H	18.32	19.74	18.71	20.08	20.46	19.61	21.03	20.01	21.37	21.75
	6H	18.73	20.04	19.14	20.41	20.80	20.35	21.67	20.76	22.03	22.42
	8H	18.83	20.09	19.25	20.48	20.87	20.65	21.91	21.07	22.30	22.69
	12H	18.88	20.08	19.31	20.47	20.89	20.84	22.05	21.27	22.43	22.86
4H	2H	16.70	18.12	17.09	18.46	18.84	17.27	18.69	17.67	19.03	19.41
	3H	18.69	19.88	19.10	20.28	20.68	19.58	20.78	19.99	21.17	21.57
	4H	19.43	20.51	19.86	20.93	21.36	20.60	21.68	21.03	22.10	22.53
	6H	19.96	20.91	20.41	21.35	21.80	21.51	22.45	21.96	22.89	23.35
	8H	20.10	20.99	20.56	21.43	21.90	21.87	22.76	22.33	23.20	23.67
	12H	20.18	20.98	20.66	21.46	21.93	22.13	22.93	22.61	23.40	23.87
8H	4H	19.88	20.77	20.34	21.21	21.67	20.90	21.79	21.36	22.23	22.69
	6H	20.54	21.28	21.03	21.77	22.24	21.96	22.70	22.45	23.18	23.66
	8H	20.75	21.41	21.26	21.92	22.40	22.43	23.09	22.93	23.60	24.08
	12H	20.89	21.47	21.39	21.96	22.52	22.78	23.37	23.28	23.86	24.42
12H	4H	19.96	20.76	20.44	21.23	21.70	20.92	21.72	21.40	22.20	22.67
	6H	20.66	21.33	21.17	21.84	22.32	22.01	22.67	22.51	23.18	23.66
	8H	20.94	21.53	21.45	22.02	22.58	22.54	23.13	23.05	23.62	24.18