

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: P1587617

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-33HE-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

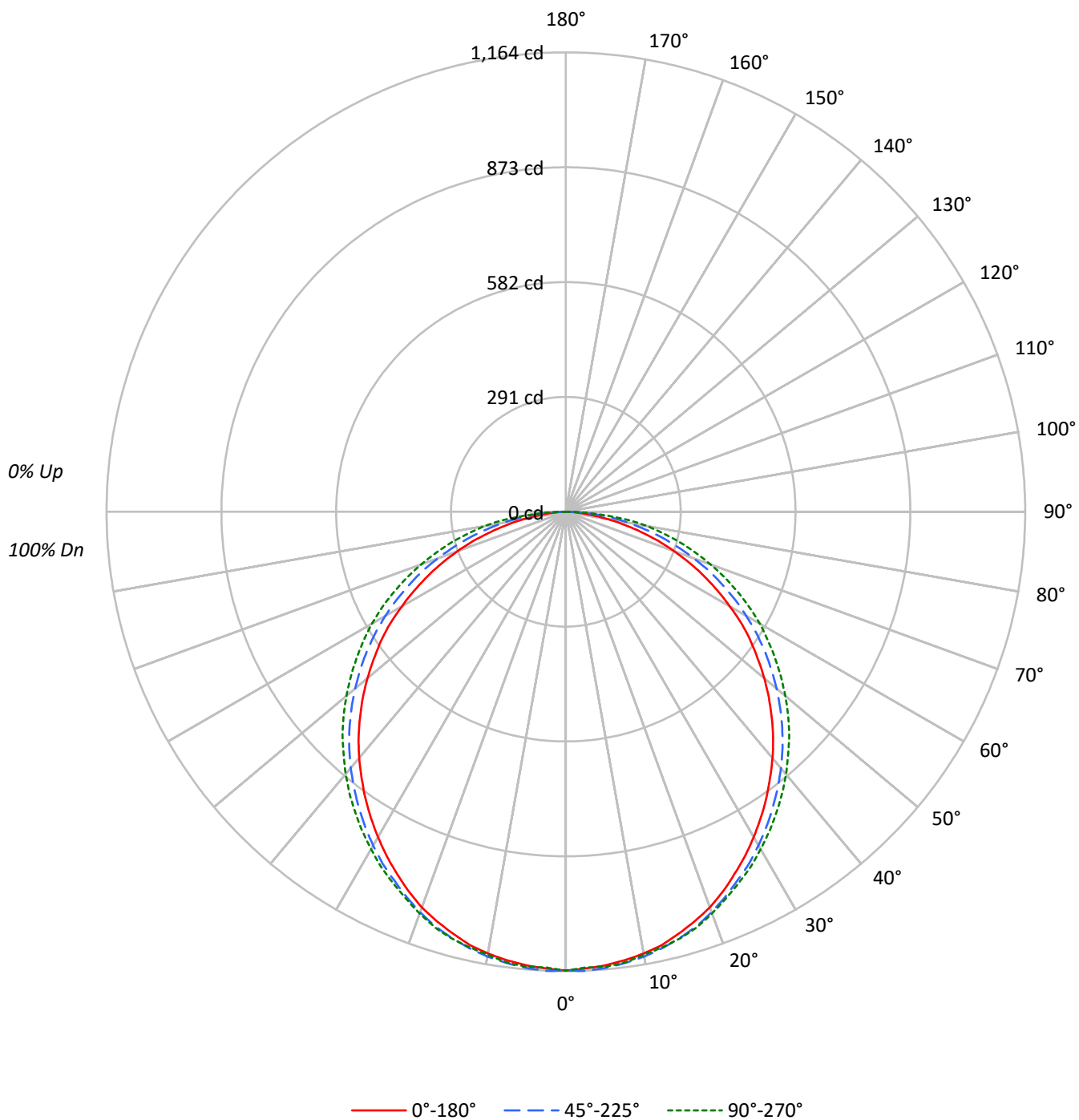
Lumens per Lamp: N/A
Luminaire Lumens: 3392.0 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	68
3	89	79	70	63	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°	3640	3640	3640
5°	3626	3647	3638
10°	3614	3639	3625
15°	3586	3624	3628
20°	3555	3598	3610
25°	3498	3559	3584
30°	3442	3530	3569
35°	3386	3496	3557
40°	3331	3466	3548
45°	3268	3433	3545
50°	3197	3396	3536
55°	3124	3359	3535
60°	3008	3309	3557
65°	2867	3245	3559
70°	2675	3155	3569
75°	2380	3040	3631
80°	1955	2912	3767
85°	1290	2734	3406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.2
10°-20°	314.7	9.3
20°-30°	474.3	14.0
30°-40°	571.2	16.8
40°-50°	596.8	17.6
50°-60°	548.3	16.2
60°-70°	431.8	12.7
70°-80°	264.7	7.8
80°-90°	80.2	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°	899.0	26.5
0°-40°	1470.2	43.3
0°-60°	2615.3	77.1
0°-90°	3392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1154	1156	1160	1159	1157	110
15°	1106	1111	1118	1122	1119	312
25°	1012	1019	1030	1041	1037	467
35°	886	897	915	931	930	554
45°	738	754	775	797	800	569
55°	572	589	615	642	648	510
65°	387	407	438	467	480	383
75°	197	220	251	281	300	209
85°	36	53	76	85	95	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.3	1162.3	1162.3	1162.3	1162.3
2.5°	1158.0	1160.9	1164.5	1158.7	1155.8
5°	1153.7	1155.8	1160.1	1158.7	1157.3
7.5°	1145.8	1147.2	1153.0	1153.0	1151.5
10°	1136.5	1139.3	1144.4	1143.6	1140.0
12.5°	1124.3	1126.4	1132.2	1132.2	1130.0
15°	1106.3	1110.6	1117.8	1122.1	1119.2
17.5°	1087.6	1091.9	1101.3	1105.6	1104.2
20°	1066.8	1070.4	1079.7	1086.2	1083.3
22.5°	1041.0	1045.3	1056.1	1063.2	1060.4
25°	1012.3	1018.7	1030.2	1041.0	1037.4
27.5°	983.5	990.7	1005.1	1015.8	1014.4
30°	952.0	961.3	976.4	990.0	987.1
32.5°	919.6	930.4	946.2	960.6	959.9
35°	885.9	897.4	914.6	931.1	930.4
37.5°	850.0	863.7	881.6	899.5	900.3
40°	814.8	827.8	847.9	867.2	868.0
42.5°	777.5	791.1	812.7	832.8	833.5
45°	738.0	753.8	775.3	796.9	800.5
47.5°	697.8	714.3	736.6	759.6	763.9
50°	656.2	673.4	697.1	721.5	725.8
52.5°	613.8	631.8	656.2	680.6	687.0
55°	572.2	588.7	615.3	641.8	647.6
57.5°	528.4	543.5	572.2	600.2	607.4
60°	480.3	499.0	528.4	556.4	567.9
62.5°	433.6	453.7	483.9	511.9	524.8
65°	387.0	407.1	437.9	467.4	480.3
67.5°	339.6	360.4	393.4	421.4	435.8
70°	292.2	313.0	344.6	374.8	389.8
72.5°	244.8	267.1	297.9	328.8	343.9
75°	196.7	219.7	251.3	281.4	300.1
77.5°	151.5	173.7	205.3	236.2	252.0
80°	108.4	130.7	161.5	192.4	208.9
82.5°	68.9	89.7	119.9	145.7	160.8
85°	35.9	53.1	76.1	84.7	94.8
87.5°	10.8	20.8	29.4	33.0	40.9
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	16.00	17.66	16.37	17.98	18.29	16.75	18.41	17.11	18.73	19.04
	3H	17.76	19.27	18.14	19.60	19.96	18.84	20.35	19.22	20.68	21.04
	4H	18.39	19.81	18.79	20.16	20.53	19.73	21.15	20.13	21.50	21.87
	6H	18.80	20.12	19.21	20.49	20.88	20.50	21.82	20.91	22.18	22.57
	8H	18.91	20.17	19.33	20.56	20.96	20.81	22.07	21.23	22.46	22.86
	12H	18.96	20.17	19.39	20.55	20.98	21.02	22.23	21.45	22.61	23.04
4H	2H	16.77	18.19	17.17	18.54	18.92	17.35	18.77	17.75	19.12	19.50
	3H	18.77	19.96	19.17	20.36	20.76	19.68	20.88	20.09	21.27	21.67
	4H	19.52	20.61	19.95	21.02	21.45	20.71	21.80	21.15	22.21	22.65
	6H	20.06	21.01	20.51	21.45	21.90	21.65	22.60	22.10	23.04	23.49
	8H	20.20	21.10	20.66	21.54	22.00	22.03	22.92	22.49	23.36	23.83
	12H	20.29	21.09	20.77	21.57	22.04	22.30	23.11	22.78	23.58	24.05
8H	4H	19.97	20.86	20.43	21.31	21.77	21.01	21.91	21.47	22.35	22.81
	6H	20.65	21.39	21.14	21.88	22.35	22.10	22.84	22.59	23.33	23.80
	8H	20.87	21.54	21.38	22.04	22.53	22.59	23.26	23.09	23.76	24.24
	12H	21.02	21.61	21.52	22.10	22.66	22.96	23.55	23.47	24.04	24.60
12H	4H	20.06	20.86	20.53	21.33	21.80	21.04	21.85	21.52	22.32	22.79
	6H	20.78	21.45	21.28	21.95	22.44	22.15	22.82	22.66	23.33	23.81
	8H	21.07	21.66	21.57	22.15	22.71	22.70	23.30	23.21	23.79	24.35