

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: P1587615

Luminaire Tested: 22CZSP-SB-33HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587615
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

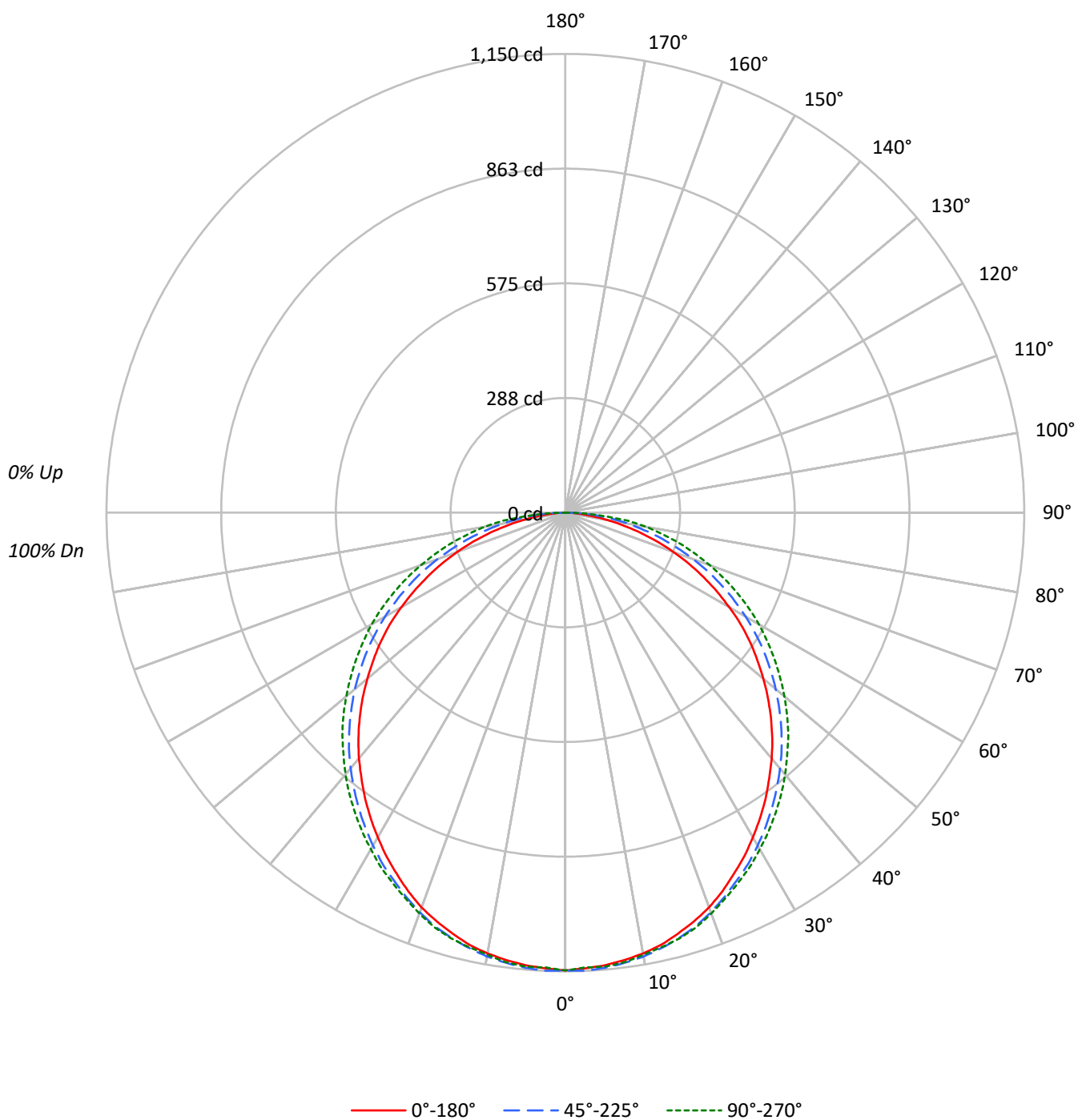
Lumens per Lamp: N/A
Luminaire Lumens: 3349.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3594	3594	3594
5°	3581	3600	3592
10°	3568	3592	3579
15°	3541	3578	3582
20°	3510	3553	3564
25°	3453	3514	3539
30°	3398	3486	3524
35°	3344	3452	3511
40°	3289	3422	3503
45°	3227	3390	3500
50°	3156	3353	3491
55°	3084	3317	3490
60°	2970	3267	3511
65°	2831	3204	3514
70°	2641	3115	3524
75°	2350	3002	3585
80°	1929	2876	3720
85°	1272	2698	3363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.2
10°-20°	310.7	9.3
20°-30°	468.3	14.0
30°-40°	564.0	16.8
40°-50°	589.2	17.6
50°-60°	541.3	16.2
60°-70°	426.3	12.7
70°-80°	261.4	7.8
80°-90°	79.2	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°	887.6	26.5
0°-40°	1451.6	43.3
0°-60°	2582.1	77.1
0°-90°	3349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1139	1141	1145	1144	1143	108
15°	1092	1096	1104	1108	1105	308
25°	999	1006	1017	1028	1024	461
35°	875	886	903	919	919	547
45°	729	744	766	787	790	562
55°	565	581	608	634	639	504
65°	382	402	432	461	474	378
75°	194	217	248	278	296	206
85°	35	52	75	84	94	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1143.3	1146.2	1149.7	1144.0	1141.2
5°	1139.1	1141.2	1145.4	1144.0	1142.6
7.5°	1131.3	1132.7	1138.4	1138.4	1136.9
10°	1122.1	1124.9	1129.8	1129.1	1125.6
12.5°	1110.0	1112.1	1117.8	1117.8	1115.7
15°	1092.3	1096.5	1103.6	1107.9	1105.0
17.5°	1073.9	1078.1	1087.3	1091.6	1090.2
20°	1053.3	1056.8	1066.1	1072.4	1069.6
22.5°	1027.8	1032.0	1042.7	1049.8	1046.9
25°	999.4	1005.8	1017.1	1027.8	1024.2
27.5°	971.1	978.2	992.3	1003.0	1001.6
30°	939.9	949.1	964.0	977.5	974.6
32.5°	908.0	918.6	934.2	948.4	947.7
35°	874.7	886.0	903.0	919.3	918.6
37.5°	839.2	852.7	870.4	888.1	888.9
40°	804.5	817.3	837.1	856.2	857.0
42.5°	767.6	781.1	802.4	822.2	822.9
45°	728.7	744.3	765.5	786.8	790.3
47.5°	689.0	705.3	727.2	749.9	754.2
50°	647.9	664.9	688.3	712.4	716.6
52.5°	606.0	623.8	647.9	672.0	678.3
55°	564.9	581.2	607.5	633.7	639.3
57.5°	521.7	536.6	564.9	592.6	599.7
60°	474.2	492.6	521.7	549.3	560.7
62.5°	428.1	448.0	477.7	505.4	518.1
65°	382.1	401.9	432.4	461.4	474.2
67.5°	335.3	355.8	388.4	416.1	430.2
70°	288.5	309.0	340.2	370.0	384.9
72.5°	241.7	263.7	294.2	324.6	339.5
75°	194.2	216.9	248.1	277.9	296.3
77.5°	149.6	171.5	202.7	233.2	248.8
80°	107.0	129.0	159.5	190.0	206.3
82.5°	68.0	88.6	118.4	143.9	158.8
85°	35.4	52.5	75.1	83.6	93.6
87.5°	10.6	20.6	29.1	32.6	40.4
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	15.96	17.62	16.32	17.93	18.25	16.70	18.37	17.07	18.68	18.99
	3H	17.72	19.23	18.10	19.55	19.91	18.80	20.31	19.18	20.63	20.99
	4H	18.34	19.77	18.74	20.11	20.49	19.68	21.11	20.08	21.45	21.83
	6H	18.76	20.08	19.17	20.44	20.83	20.45	21.77	20.86	22.14	22.53
	8H	18.86	20.13	19.29	20.51	20.91	20.76	22.03	21.19	22.41	22.81
	12H	18.91	20.13	19.34	20.51	20.94	20.98	22.19	21.40	22.57	23.00
4H	2H	16.73	18.15	17.13	18.50	18.87	17.31	18.73	17.71	19.08	19.45
	3H	18.72	19.92	19.13	20.32	20.72	19.64	20.83	20.04	21.23	21.63
	4H	19.47	20.56	19.91	20.97	21.41	20.67	21.76	21.10	22.17	22.60
	6H	20.01	20.96	20.46	21.40	21.86	21.60	22.55	22.05	22.99	23.45
	8H	20.16	21.05	20.62	21.49	21.96	21.99	22.88	22.44	23.32	23.78
	12H	20.24	21.05	20.72	21.52	21.99	22.26	23.06	22.74	23.54	24.01
8H	4H	19.93	20.82	20.39	21.26	21.72	20.97	21.86	21.43	22.30	22.77
	6H	20.60	21.35	21.10	21.84	22.31	22.05	22.80	22.55	23.29	23.76
	8H	20.83	21.49	21.33	22.00	22.48	22.54	23.21	23.05	23.72	24.20
	12H	20.97	21.56	21.48	22.05	22.61	22.92	23.51	23.42	24.00	24.56
12H	4H	20.01	20.81	20.49	21.29	21.76	21.00	21.80	21.48	22.28	22.74
	6H	20.73	21.40	21.24	21.91	22.39	22.11	22.78	22.61	23.28	23.77
	8H	21.02	21.62	21.53	22.11	22.66	22.66	23.25	23.17	23.74	24.30