

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: P1586375

Luminaire Tested: 22CZSP-37HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586375
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-37HE-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

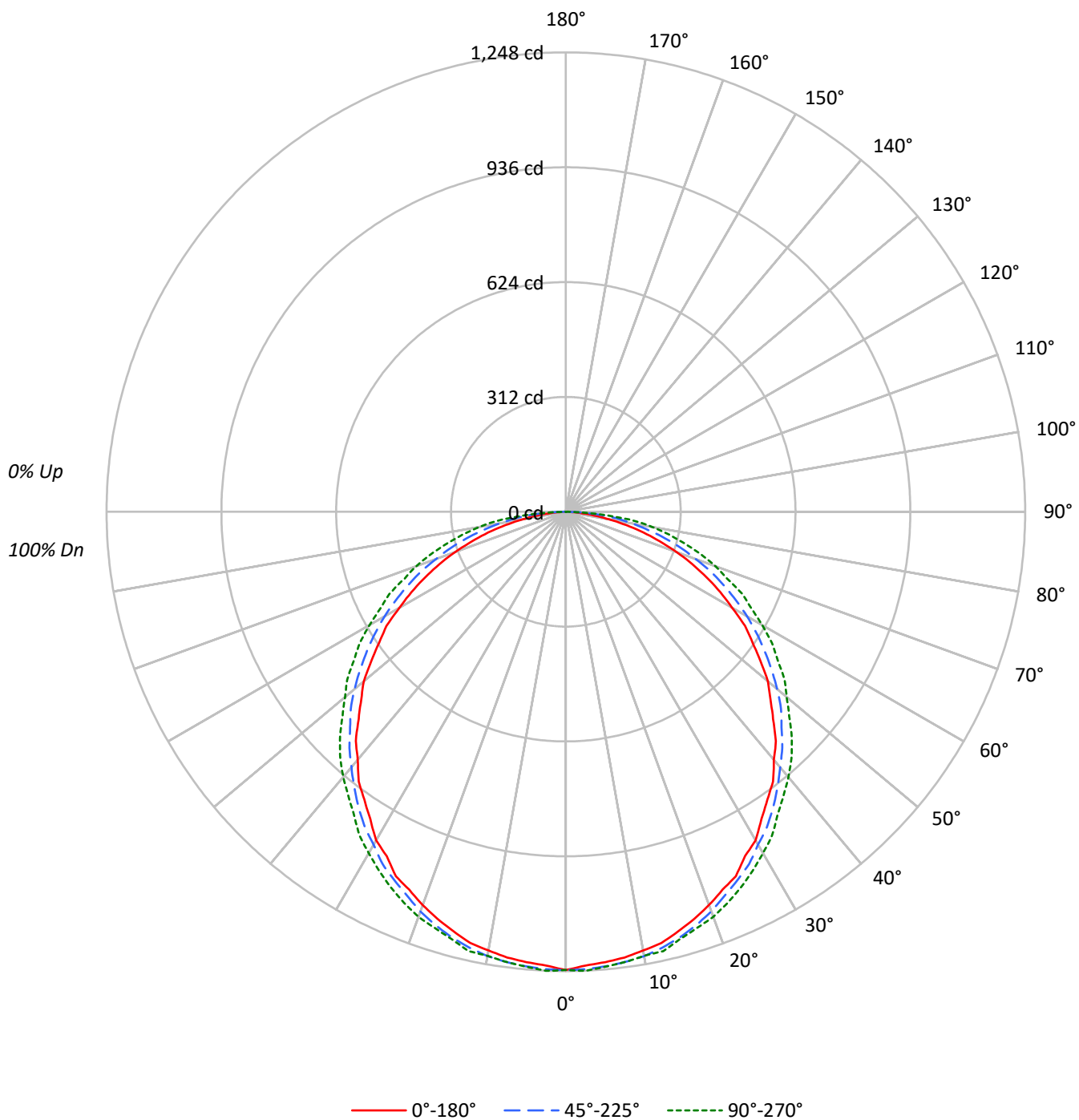
Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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°	3899	3899	3899
5°	3861	3896	3899
10°	3848	3898	3894
15°	3825	3880	3894
20°	3790	3850	3902
25°	3774	3813	3891
30°	3727	3776	3873
35°	3649	3752	3837
40°	3594	3705	3846
45°	3526	3671	3844
50°	3491	3650	3814
55°	3380	3600	3833
60°	3266	3562	3857
65°	3125	3507	3923
70°	2937	3440	3963
75°	2646	3379	4043
80°	2164	3316	4308
85°	1412	3305	4031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.2
10°-20°	337.0	9.2
20°-30°	509.3	13.9
30°-40°	614.2	16.8
40°-50°	642.1	17.5
50°-60°	592.1	16.1
60°-70°	469.2	12.8
70°-80°	293.3	8.0
80°-90°	92.0	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°	963.9	26.3
0°-40°	1578.2	43.0
0°-60°	2812.4	76.7
0°-90°	3667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1228	1234	1239	1244	1240	117
15°	1180	1186	1197	1205	1201	333
25°	1092	1089	1104	1119	1126	501
35°	954	966	981	998	1004	599
45°	796	808	829	850	868	616
55°	619	634	660	695	702	555
65°	422	440	473	510	529	418
75°	219	237	279	318	334	230
85°	39	56	92	108	112	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.0	1245.0	1245.0	1245.0	1245.0
2.5°	1233.8	1239.4	1243.9	1242.7	1248.3
5°	1228.2	1233.8	1239.4	1243.9	1240.5
7.5°	1221.4	1227.0	1233.8	1240.5	1233.8
10°	1210.2	1213.6	1225.9	1227.0	1224.8
12.5°	1200.1	1203.5	1212.5	1220.3	1222.5
15°	1179.9	1185.5	1196.8	1204.6	1201.2
17.5°	1159.7	1167.6	1177.7	1185.5	1185.5
20°	1137.3	1142.9	1155.3	1160.9	1171.0
22.5°	1111.5	1118.2	1128.3	1144.0	1149.6
25°	1092.4	1089.1	1103.7	1119.4	1126.1
27.5°	1054.3	1058.8	1079.0	1093.6	1099.2
30°	1030.8	1033.0	1044.2	1064.4	1071.1
32.5°	989.3	996.0	1016.2	1030.8	1043.1
35°	954.5	965.7	981.4	998.2	1003.8
37.5°	924.2	926.4	944.4	966.8	971.3
40°	879.3	892.8	906.3	934.3	941.0
42.5°	844.6	851.3	870.4	897.3	907.4
45°	796.3	807.6	828.9	850.2	868.1
47.5°	753.7	764.9	793.0	819.9	823.3
50°	716.7	721.2	749.2	779.5	782.9
52.5°	666.2	677.4	704.4	738.0	749.2
55°	619.1	633.7	659.5	695.4	702.1
57.5°	577.6	584.4	614.6	650.5	664.0
60°	521.5	540.6	568.7	603.4	615.8
62.5°	473.3	491.3	521.5	554.1	567.5
65°	421.7	439.7	473.3	510.3	529.4
67.5°	372.4	387.0	427.3	465.5	474.4
70°	320.8	337.6	375.7	415.0	432.9
72.5°	266.9	286.0	328.6	365.6	384.7
75°	218.7	236.7	279.3	318.5	334.2
77.5°	168.2	188.4	229.9	269.2	287.1
80°	120.0	140.2	183.9	223.2	238.9
82.5°	77.4	98.7	140.2	175.0	188.4
85°	39.3	56.1	92.0	107.7	112.2
87.5°	12.3	20.2	31.4	35.9	35.9
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	16.25	17.92	16.62	18.23	18.55	17.04	18.71	17.41	19.02	19.34
	3H	18.03	19.55	18.41	19.87	20.23	19.19	20.70	19.56	21.02	21.38
	4H	18.67	20.10	19.07	20.45	20.82	20.11	21.54	20.51	21.88	22.26
	6H	19.10	20.42	19.51	20.79	21.18	20.93	22.26	21.34	22.62	23.01
	8H	19.21	20.48	19.63	20.87	21.26	21.28	22.55	21.70	22.94	23.33
	12H	19.26	20.48	19.69	20.86	21.29	21.52	22.74	21.95	23.12	23.55
4H	2H	17.02	18.45	17.42	18.80	19.17	17.64	19.07	18.04	19.41	19.79
	3H	19.03	20.24	19.44	20.64	21.03	20.02	21.23	20.43	21.62	22.02
	4H	19.80	20.89	20.23	21.30	21.74	21.11	22.20	21.54	22.62	23.05
	6H	20.34	21.30	20.80	21.74	22.19	22.11	23.07	22.56	23.51	23.96
	8H	20.50	21.40	20.96	21.84	22.30	22.54	23.43	22.99	23.87	24.34
	12H	20.59	21.40	21.07	21.87	22.34	22.85	23.66	23.33	24.13	24.60
8H	4H	20.28	21.17	20.73	21.61	22.08	21.42	22.32	21.88	22.76	23.22
	6H	20.97	21.72	21.46	22.20	22.68	22.58	23.33	23.07	23.82	24.29
	8H	21.19	21.87	21.70	22.37	22.86	23.13	23.80	23.63	24.31	24.79
	12H	21.34	21.94	21.85	22.43	22.99	23.56	24.15	24.06	24.64	25.20
12H	4H	20.37	21.18	20.85	21.66	22.12	21.45	22.26	21.93	22.73	23.20
	6H	21.11	21.79	21.62	22.29	22.78	22.64	23.31	23.15	23.82	24.30
	8H	21.42	22.01	21.92	22.50	23.06	23.26	23.85	23.76	24.34	24.90