

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: P1584541

Luminaire Tested: 14CZSP-A-35-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-35-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

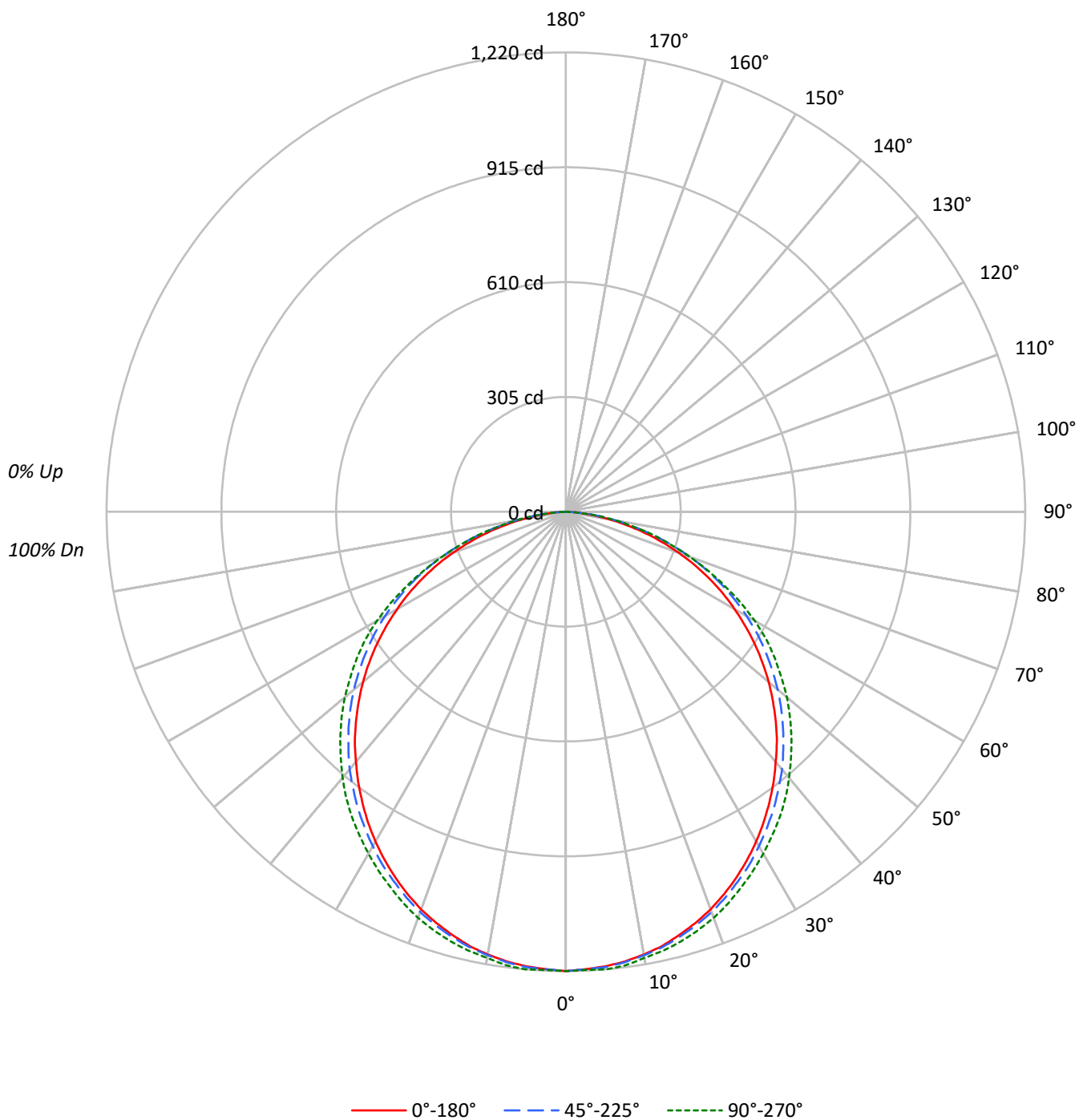
Lumens per Lamp: N/A
Luminaire Lumens: 3520.0 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	53		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4111	4111	4111
5°	4098	4105	4126
10°	4085	4092	4117
15°	4059	4077	4121
20°	4030	4056	4116
25°	3984	4024	4093
30°	3934	3991	4081
35°	3876	3958	4074
40°	3815	3929	4058
45°	3759	3889	4038
50°	3687	3851	4015
55°	3599	3801	3979
60°	3488	3742	3903
65°	3353	3636	3711
70°	3146	3454	3454
75°	2826	3139	3152
80°	2329	2653	2653
85°	1612	1937	1693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.3
10°-20°	330.9	9.4
20°-30°	500.9	14.2
30°-40°	604.7	17.2
40°-50°	631.7	17.9
50°-60°	578.7	16.4
60°-70°	446.2	12.7
70°-80°	251.7	7.2
80°-90°	59.6	1.7
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°	947.4	26.9
0°-40°	1552.0	44.1
0°-60°	2762.5	78.5
0°-90°	3520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1212	1220	1214	1216	1220	115
15°	1164	1171	1169	1178	1181	328
25°	1072	1081	1082	1097	1101	494
35°	942	955	962	983	990	590
45°	789	802	816	840	847	608
55°	613	628	647	671	677	547
65°	421	434	456	472	465	416
75°	217	234	241	247	242	230
85°	42	47	50	53	44	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1215.7	1224.1	1215.7	1219.9	1217.8
5°	1211.6	1219.9	1213.7	1215.7	1219.9
7.5°	1204.3	1212.6	1206.4	1209.5	1214.7
10°	1193.8	1202.2	1195.9	1201.1	1203.2
12.5°	1181.3	1188.6	1184.4	1190.7	1193.8
15°	1163.6	1170.9	1168.8	1178.2	1181.3
17.5°	1144.8	1153.1	1151.0	1162.5	1165.7
20°	1123.9	1131.2	1131.2	1141.7	1147.9
22.5°	1098.9	1107.2	1108.3	1119.7	1126.0
25°	1071.7	1081.1	1082.2	1096.8	1101.0
27.5°	1042.5	1051.9	1056.1	1071.7	1075.9
30°	1011.2	1020.6	1025.8	1043.6	1048.8
32.5°	977.8	989.3	994.5	1014.3	1019.6
35°	942.3	954.9	962.2	983.0	990.3
37.5°	905.8	918.3	927.7	949.6	958.0
40°	867.2	880.8	893.3	915.2	922.5
42.5°	829.6	843.2	854.7	877.6	884.9
45°	788.9	802.5	816.1	840.1	847.4
47.5°	746.1	760.8	776.4	798.3	807.7
50°	703.4	718.0	734.7	757.6	766.0
52.5°	658.5	674.1	690.8	714.8	721.1
55°	612.6	628.2	647.0	671.0	677.3
57.5°	565.6	582.3	602.1	625.1	631.4
60°	517.6	534.3	555.2	577.1	579.2
62.5°	470.6	485.3	506.1	527.0	523.9
65°	420.6	434.1	456.0	471.7	465.4
67.5°	370.5	385.1	404.9	416.4	408.0
70°	319.3	335.0	350.6	359.0	350.6
72.5°	268.2	284.9	296.4	301.6	294.3
75°	217.1	233.8	241.1	247.3	242.1
77.5°	168.0	183.7	186.8	194.1	186.8
80°	120.0	134.6	136.7	144.0	136.7
82.5°	77.2	86.6	90.8	97.1	89.7
85°	41.7	47.0	50.1	53.2	43.8
87.5°	14.6	16.7	14.6	12.5	5.2
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	16.62	18.27	16.99	18.59	18.90	17.17	18.82	17.53	19.13	19.45
	3H	18.41	19.90	18.79	20.23	20.59	18.97	20.47	19.35	20.79	21.15
	4H	19.05	20.46	19.45	20.81	21.18	19.62	21.03	20.02	21.37	21.75
	6H	19.48	20.78	19.89	21.14	21.53	20.06	21.36	20.47	21.73	22.12
	8H	19.58	20.83	20.01	21.22	21.62	20.18	21.43	20.61	21.82	22.22
	12H	19.64	20.83	20.07	21.21	21.64	20.24	21.43	20.67	21.82	22.24
4H	2H	17.35	18.76	17.75	19.10	19.48	17.78	19.18	18.17	19.53	19.90
	3H	19.36	20.54	19.77	20.93	21.33	19.81	20.99	20.22	21.39	21.79
	4H	20.13	21.19	20.56	21.61	22.04	20.59	21.66	21.02	22.07	22.51
	6H	20.67	21.60	21.12	22.04	22.50	21.16	22.09	21.61	22.53	22.99
	8H	20.81	21.69	21.27	22.13	22.59	21.32	22.20	21.78	22.64	23.10
	12H	20.90	21.68	21.38	22.16	22.63	21.42	22.20	21.90	22.68	23.15
8H	4H	20.47	21.34	20.93	21.78	22.25	20.88	21.75	21.34	22.20	22.66
	6H	21.13	21.85	21.62	22.34	22.81	21.56	22.29	22.06	22.78	23.25
	8H	21.33	21.98	21.84	22.49	22.97	21.79	22.45	22.30	22.95	23.44
	12H	21.47	22.04	21.98	22.53	23.09	21.95	22.52	22.45	23.01	23.57
12H	4H	20.50	21.29	20.98	21.76	22.23	20.91	21.69	21.39	22.17	22.63
	6H	21.18	21.83	21.69	22.34	22.83	21.60	22.25	22.11	22.76	23.25
	8H	21.44	22.02	21.95	22.51	23.07	21.89	22.46	22.39	22.95	23.51