

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P685565

Luminaire Tested: **8CZL-14-UNV-FL-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685565
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-FL-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

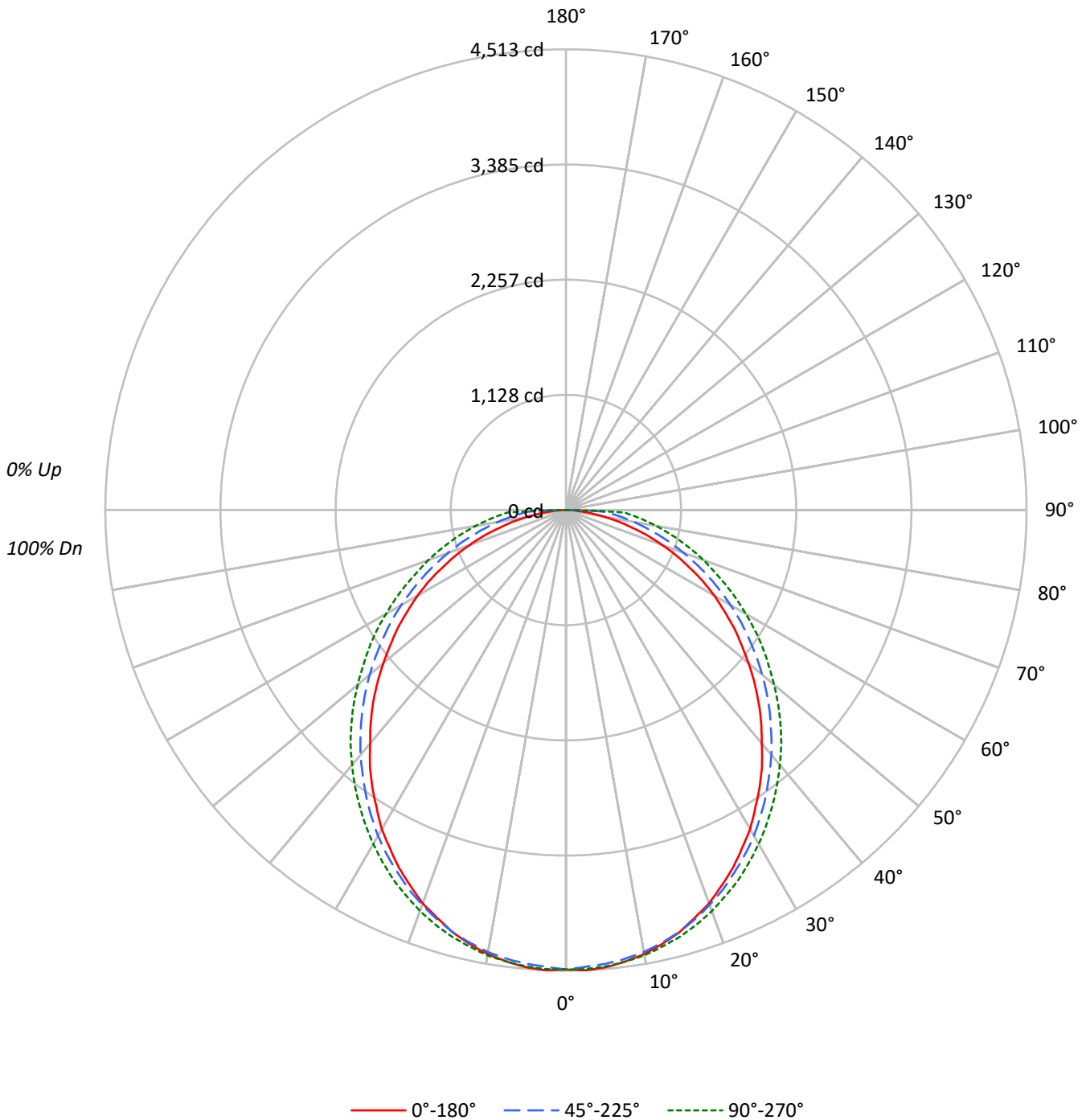
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12676.4 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 89
Input Voltage (V): 120
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: 25 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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	59	59	59	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7266	7266	7266
5°	7280	7182	7210
10°	7226	7111	7137
15°	7139	7008	7041
20°	7019	6877	6931
25°	6859	6724	6805
30°	6688	6571	6658
35°	6476	6383	6500
40°	6238	6195	6339
45°	6037	5984	6172
50°	5794	5768	5977
55°	5571	5531	5801
60°	5326	5295	5599
65°	5000	5042	5422
70°	4621	4761	5316
75°	4058	4525	5254
80°	3334	4371	5324
85°	2238	4472	5768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	3.4
10°-20°	1211.3	9.6
20°-30°	1809.1	14.3
30°-40°	2139.6	16.9
40°-50°	2180.2	17.2
50°-60°	1953.6	15.4
60°-70°	1521.6	12.0
70°-80°	985.1	7.8
80°-90°	450.2	3.6
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°	3446.1	27.2
0°-40°	5585.8	44.1
0°-60°	9719.5	76.7
0°-90°	12676.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12676.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4500	4500	4500	4500	4500	
5°	4496	4488	4462	4488	4488	426
15°	4283	4283	4280	4321	4325	1206
25°	3869	3883	3912	3981	3998	1780
35°	3310	3341	3416	3508	3529	2068
45°	2671	2719	2825	2933	2973	2059
55°	2008	2065	2184	2310	2355	1793
65°	1338	1396	1541	1670	1724	1329
75°	676	762	937	1092	1156	725
85°	135	261	457	622	667	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4500.3	4500.3	4500.3	4500.3	4500.3
2.5°	4513.1	4505.4	4478.1	4502.0	4501.1
5°	4496.0	4488.3	4461.8	4488.3	4487.5
7.5°	4460.9	4458.4	4434.4	4463.5	4460.9
10°	4415.6	4412.2	4396.8	4425.9	4430.1
12.5°	4355.7	4354.0	4342.0	4376.3	4378.8
15°	4283.0	4283.0	4280.5	4320.7	4324.9
17.5°	4189.8	4201.8	4204.3	4247.9	4257.4
20°	4100.8	4104.2	4116.2	4169.2	4180.4
22.5°	3983.6	3998.2	4022.1	4080.3	4089.7
25°	3869.0	3882.7	3911.8	3981.1	3998.2
27.5°	3735.6	3762.1	3802.3	3871.6	3888.7
30°	3609.0	3631.2	3683.4	3760.4	3777.5
32.5°	3454.1	3491.8	3551.6	3632.9	3656.0
35°	3309.6	3341.2	3415.6	3508.0	3528.6
37.5°	3154.7	3192.4	3271.1	3369.4	3397.7
40°	2985.4	3040.1	3131.6	3230.0	3260.0
42.5°	2830.5	2881.0	2977.7	3088.9	3123.1
45°	2671.4	2719.3	2825.4	2933.2	2973.4
47.5°	2505.5	2555.1	2670.6	2785.2	2821.1
50°	2335.3	2394.3	2509.8	2630.4	2662.9
52.5°	2165.9	2224.9	2347.2	2467.8	2504.6
55°	2008.5	2065.0	2183.9	2309.6	2354.9
57.5°	1837.4	1897.3	2028.2	2149.6	2198.4
60°	1679.2	1722.8	1861.4	1987.1	2034.2
62.5°	1515.8	1562.8	1698.0	1827.1	1882.7
65°	1337.9	1396.0	1540.6	1669.8	1723.6
67.5°	1175.3	1230.9	1379.8	1525.2	1568.8
70°	1006.8	1071.0	1224.9	1373.8	1435.4
72.5°	846.0	912.7	1082.1	1230.1	1292.5
75°	675.8	762.2	936.7	1092.4	1156.5
77.5°	535.5	621.0	799.8	962.3	1023.9
80°	379.8	485.0	678.3	842.6	897.3
82.5°	253.2	360.1	562.9	722.8	781.8
85°	135.2	260.9	456.8	621.9	667.2
87.5°	59.0	182.2	370.4	517.5	571.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)