

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: P685925

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685925
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-LVRF-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

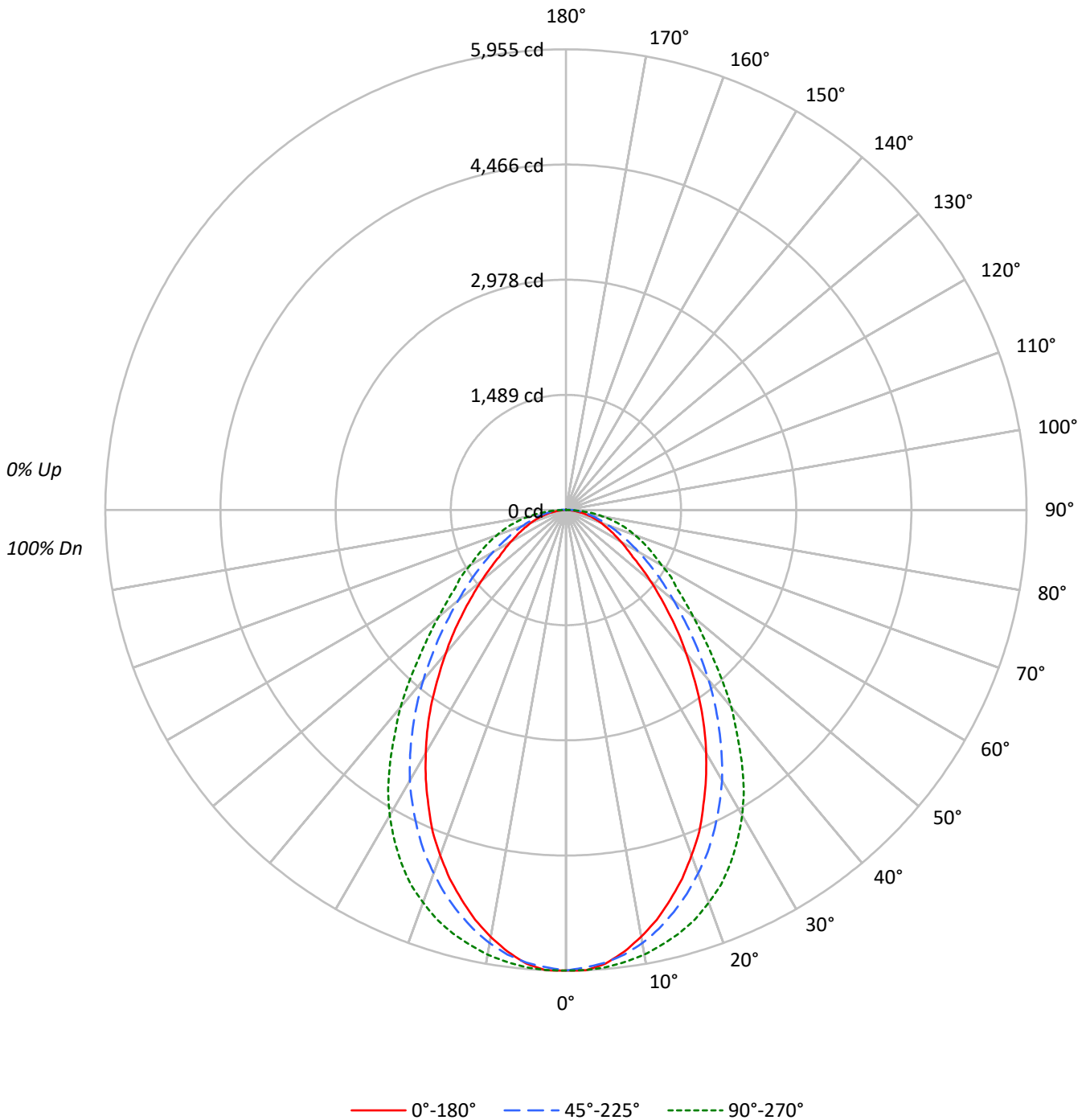
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10980.4 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.12
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 89
Input Voltage (V): 120
Input Current (A_{in}): 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	76	76	76	74
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	47	47	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	43	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	39	39	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9611	9611	9611
5°	9541	9518	9614
10°	9184	9320	9567
15°	8714	8994	9466
20°	8161	8584	9278
25°	7494	8099	8970
30°	6754	7526	8494
35°	5949	6807	7802
40°	5092	6044	7016
45°	4290	5268	6110
50°	3582	4566	5402
55°	2964	4012	4898
60°	2671	3517	4619
65°	2428	3095	4517
70°	2262	2779	4483
75°	2097	2594	4573
80°	1901	2569	4582
85°	1632	3010	4533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.0	5.1
10°-20°	1522.1	13.9
20°-30°	2103.1	19.2
30°-40°	2163.4	19.7
40°-50°	1773.6	16.2
50°-60°	1272.7	11.6
60°-70°	856.0	7.8
70°-80°	499.6	4.6
80°-90°	192.5	1.8
90°-100°	33.4	0.3
100°-110°	2.8	0.0
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.7	0.0
140°-150°	0.9	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	4182.1	38.1
0°-40°	6345.5	57.8
0°-60°	9391.8	85.5
0°-90°	10940.0	99.6
90°-120°	36.8	0.3
90°-150°	38.9	0.4
90°-180°	40.0	0.4
0°-180°	10980.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5952	5952	5952	5952	5952	
5°	5886	5891	5873	5928	5932	552
15°	5213	5266	5381	5590	5663	1462
25°	4206	4305	4546	4862	5035	1931
35°	3018	3158	3454	3777	3958	1881
45°	1879	2025	2307	2534	2676	1458
55°	1053	1179	1425	1620	1740	969
65°	636	673	810	1040	1182	633
75°	336	348	416	577	733	357
85°	88	110	162	243	245	95
90°	1	37	83	127	26	5
95°	1	6	35	61	11	0
105°	0	1	2	3	2	0
115°	1	1	1	0	0	1
125°	1	1	1	0	0	1
135°	1	2	1	1	0	1
145°	2	2	2	1	1	1
155°	2	3	2	1	1	1
165°	3	3	3	2	1	1
175°	3	3	3	2	2	0
180°	3	3	3	3	3	



TEST NUMBER: P685925

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5952.4	5952.4	5952.4	5952.4	5952.4
2.5°	5954.9	5949.8	5916.4	5954.9	5953.2
5°	5886.5	5890.8	5872.8	5927.5	5931.8
7.5°	5759.0	5776.1	5795.8	5876.2	5890.8
10°	5601.6	5627.3	5684.6	5804.4	5835.2
12.5°	5424.5	5452.8	5546.0	5711.1	5753.9
15°	5213.2	5266.3	5380.9	5589.6	5663.2
17.5°	4995.1	5060.1	5202.1	5449.3	5548.6
20°	4749.6	4814.6	4995.9	5271.4	5399.7
22.5°	4503.2	4566.5	4788.1	5081.5	5241.5
25°	4206.3	4304.7	4546.0	4862.5	5035.3
27.5°	3922.3	4026.7	4295.3	4634.9	4806.9
30°	3622.9	3745.2	4037.0	4361.2	4556.2
32.5°	3326.1	3450.1	3747.8	4085.7	4279.1
35°	3018.1	3157.5	3453.5	3776.9	3958.3
37.5°	2705.9	2858.1	3162.7	3480.9	3627.2
40°	2415.8	2565.6	2867.5	3152.4	3328.6
42.5°	2148.1	2295.2	2575.0	2833.3	2991.6
45°	1878.6	2024.9	2307.2	2533.9	2675.9
47.5°	1637.4	1787.1	2049.7	2279.0	2397.9
50°	1426.1	1562.1	1817.9	2025.8	2150.7
52.5°	1232.7	1356.8	1610.0	1811.9	1932.5
55°	1053.1	1178.8	1425.2	1620.3	1740.0
57.5°	932.5	1022.3	1243.9	1460.3	1614.3
60°	827.2	882.8	1089.0	1345.7	1430.3
62.5°	720.3	770.8	940.2	1166.0	1297.7
65°	635.6	673.3	810.1	1040.3	1182.3
67.5°	551.8	580.0	697.2	918.8	1062.5
70°	479.1	497.0	588.6	799.0	949.6
72.5°	409.8	419.2	501.3	689.5	839.2
75°	336.2	348.2	415.8	577.4	733.1
77.5°	266.1	283.2	343.0	481.6	611.7
80°	204.5	218.1	276.3	396.1	492.8
82.5°	142.0	160.8	215.6	313.1	377.3
85°	88.1	109.5	162.5	243.0	244.7
87.5°	36.8	68.4	118.9	179.6	124.9
90°	0.9	36.8	83.0	126.6	26.5
92.5°	0.0	17.1	56.5	90.7	15.4
95°	0.9	6.0	35.1	60.7	11.1
97.5°	0.0	1.7	18.8	38.5	6.8
100°	0.0	0.9	7.7	21.4	4.3
102.5°	0.0	0.9	3.4	9.4	2.6
105°	0.0	0.9	1.7	3.4	1.7
107.5°	0.0	0.9	0.9	0.9	0.9
110°	0.9	0.9	0.9	0.9	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.9	0.9	0.0	0.0
115°	0.9	0.9	0.9	0.0	0.0
117.5°	0.9	0.9	0.9	0.0	0.0
120°	0.9	0.9	0.9	0.0	0.0
122.5°	0.9	0.9	0.9	0.0	0.0
125°	0.9	0.9	0.9	0.0	0.0
127.5°	0.9	0.9	0.9	0.0	0.0
130°	0.9	0.9	0.9	0.0	0.0
132.5°	0.9	1.7	0.9	0.9	0.0
135°	0.9	1.7	0.9	0.9	0.0
137.5°	0.9	1.7	0.9	0.9	0.0
140°	0.9	1.7	0.9	0.9	0.9
142.5°	1.7	1.7	1.7	0.9	0.9
145°	1.7	1.7	1.7	0.9	0.9
147.5°	1.7	1.7	1.7	0.9	0.9
150°	1.7	1.7	1.7	0.9	0.9
152.5°	1.7	2.6	1.7	0.9	0.9
155°	1.7	2.6	1.7	0.9	0.9
157.5°	1.7	2.6	1.7	0.9	0.9
160°	1.7	2.6	1.7	0.9	0.9
162.5°	2.6	2.6	1.7	1.7	0.9
165°	2.6	2.6	2.6	1.7	0.9
167.5°	2.6	2.6	2.6	1.7	0.9
170°	2.6	2.6	2.6	1.7	1.7
172.5°	2.6	2.6	2.6	1.7	1.7
175°	2.6	3.4	2.6	1.7	1.7
177.5°	2.6	3.4	2.6	1.7	1.7
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)