

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: P685685

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685685
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

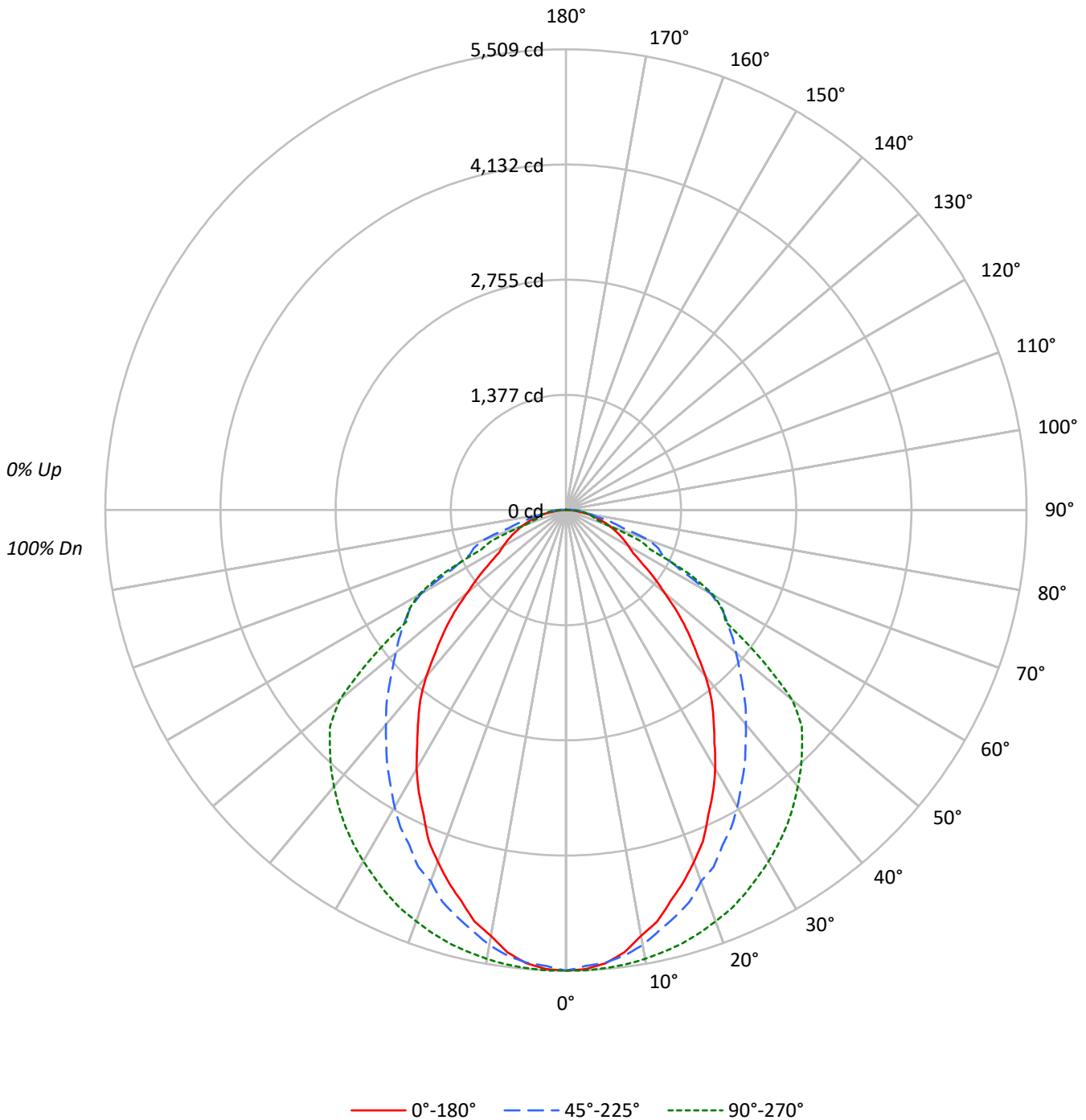
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12474.8 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.31 / 1.26
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 (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	100	100	100	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85	85	85	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8894	8894	8894
5°	8817	8804	8910
10°	8474	8661	8936
15°	8089	8418	8972
20°	7692	8120	8993
25°	7174	7885	9022
30°	6660	7643	9037
35°	6072	7343	9078
40°	5478	7057	9095
45°	4712	6831	9118
50°	3851	6670	8879
55°	3135	6644	6567
60°	2796	6459	6589
65°	2703	4847	4249
70°	2597	4967	2415
75°	2503	3501	2156
80°	2283	2848	2569
85°	2045	3549	3201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	4.1
10°-20°	1430.3	11.5
20°-30°	2069.3	16.6
30°-40°	2361.9	18.9
40°-50°	2320.7	18.6
50°-60°	1851.1	14.8
60°-70°	1166.0	9.3
70°-80°	516.6	4.1
80°-90°	198.1	1.6
90°-100°	39.3	0.3
100°-110°	2.6	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	4015.6	32.2
0°-40°	6377.5	51.1
0°-60°	10549.3	84.6
0°-90°	12430.0	99.6
90°-120°	42.3	0.3
90°-150°	43.8	0.4
90°-180°	45.0	0.4
0°-180°	12474.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5508	5508	5508	5508	5508	
5°	5440	5452	5432	5478	5497	511
15°	4839	4887	5036	5272	5367	1362
25°	4027	4157	4426	4832	5064	1856
35°	3081	3267	3726	4275	4606	1926
45°	2063	2364	2992	3661	3993	1586
55°	1114	1508	2360	2545	2333	1024
65°	708	963	1269	1352	1112	701
75°	401	464	561	425	346	421
85°	110	134	192	247	173	117
90°	1	46	101	147	28	6
95°	1	7	42	72	9	1
105°	1	1	1	3	0	1
115°	1	1	0	0	0	1
125°	1	2	0	0	0	1
135°	1	2	1	0	0	1
145°	2	2	1	0	0	1
155°	2	2	1	0	0	1
165°	3	3	2	1	0	1
175°	3	3	2	1	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5508.4	5508.4	5508.4	5508.4	5508.4
2.5°	5493.8	5490.4	5457.1	5504.1	5509.2
5°	5440.0	5451.9	5432.3	5477.6	5497.3
7.5°	5336.4	5349.3	5372.4	5455.4	5479.3
10°	5168.8	5201.3	5282.5	5398.9	5450.2
12.5°	5040.4	5080.7	5153.4	5351.0	5410.0
15°	4839.4	4887.3	5036.2	5272.3	5367.2
17.5°	4668.3	4755.6	4913.8	5173.0	5305.6
20°	4476.7	4546.8	4725.6	5075.5	5233.8
22.5°	4285.1	4374.0	4617.8	4945.5	5161.1
25°	4026.7	4156.7	4426.2	4831.7	5064.4
27.5°	3807.7	3972.0	4281.6	4697.4	4956.6
30°	3572.5	3699.9	4099.4	4560.5	4847.1
32.5°	3307.3	3507.4	3902.7	4404.0	4732.5
35°	3080.6	3267.1	3725.6	4274.8	4605.9
37.5°	2861.6	3036.9	3529.7	4128.5	4465.6
40°	2598.9	2829.9	3348.3	3961.7	4315.0
42.5°	2308.1	2591.2	3179.8	3804.3	4161.9
45°	2063.4	2363.7	2991.6	3661.4	3993.3
47.5°	1809.3	2125.9	2815.4	3487.8	3826.5
50°	1533.0	1918.0	2655.4	3326.9	3534.8
52.5°	1331.1	1701.5	2511.7	3036.1	2979.6
55°	1113.8	1508.2	2360.3	2545.0	2332.9
57.5°	948.7	1333.7	2218.2	1998.4	2226.8
60°	865.7	1194.2	2000.1	1902.6	2040.3
62.5°	787.9	1071.9	1529.6	1784.5	1678.4
65°	707.5	963.3	1268.7	1351.6	1112.1
67.5°	629.6	869.2	1196.0	1009.5	968.4
70°	550.1	796.4	1052.2	860.6	511.6
72.5°	474.8	712.6	719.5	476.5	379.8
75°	401.2	463.7	561.2	425.2	345.6
77.5°	320.8	397.8	375.6	380.7	313.1
80°	245.5	273.8	306.3	340.5	276.3
82.5°	173.7	203.6	248.1	297.7	226.7
85°	110.4	134.3	191.6	247.2	172.8
87.5°	43.6	84.7	142.9	199.3	101.8
90°	0.9	46.2	100.9	147.1	28.2
92.5°	0.9	21.4	67.6	107.8	14.5
95°	0.9	6.8	41.9	71.9	9.4
97.5°	0.9	2.6	22.2	44.5	5.1
100°	0.9	0.9	9.4	24.0	2.6
102.5°	0.9	0.9	3.4	9.4	0.9
105°	0.9	0.9	0.9	2.6	0.0
107.5°	0.9	0.9	0.0	0.0	0.0
110°	0.9	0.9	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)