

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: P685684

Luminaire Tested: **8CZL-10-UNV-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685684
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-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

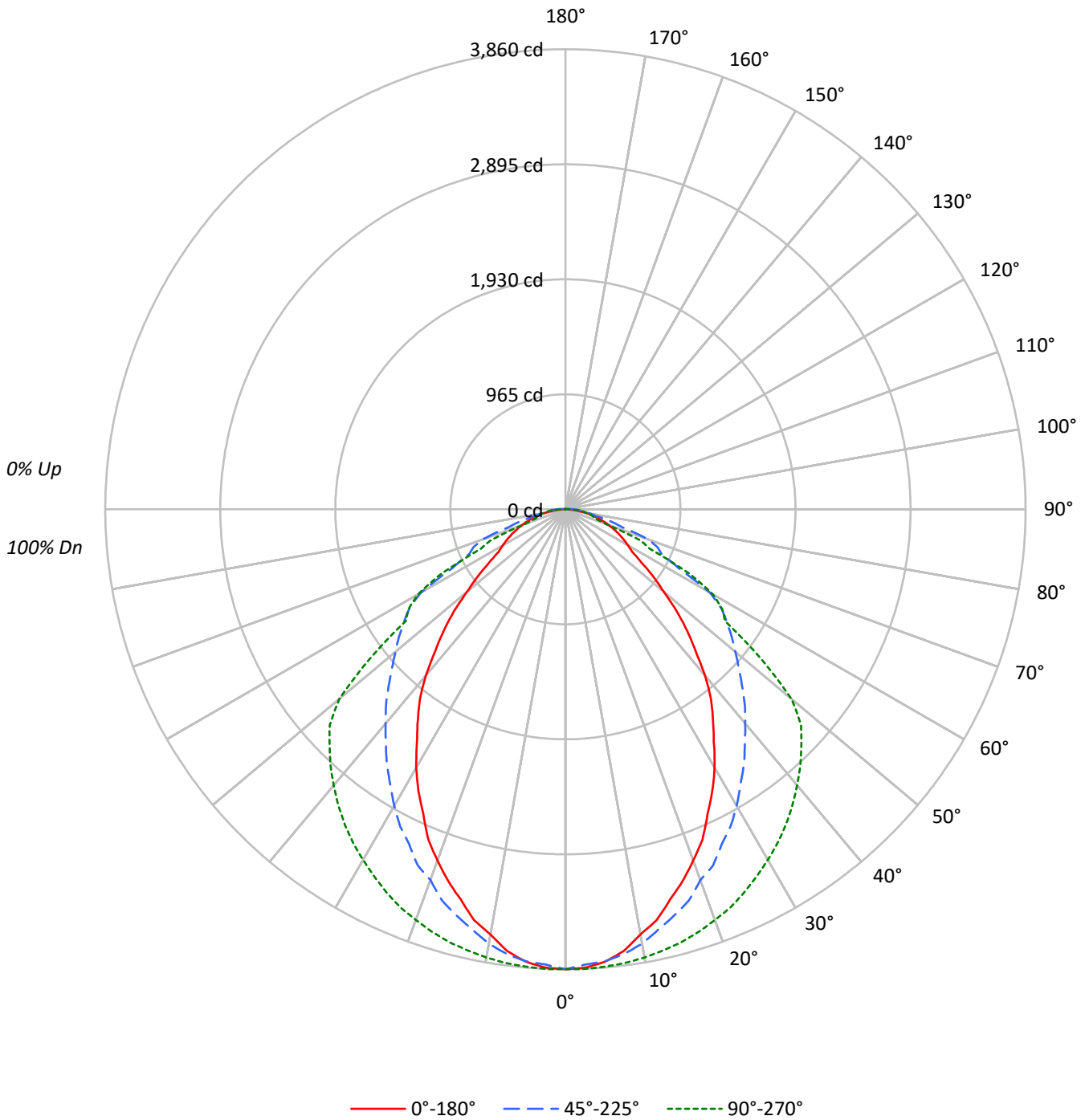
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8740.3 lumens
Efficiency: N/A
Efficacy: 138.7 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): 63
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	49	49	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	39	39	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	35	35	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6231	6231	6231
5°	6177	6169	6243
10°	5937	6068	6261
15°	5668	5898	6286
20°	5389	5689	6301
25°	5026	5525	6321
30°	4667	5355	6332
35°	4254	5145	6361
40°	3838	4945	6372
45°	3301	4786	6389
50°	2698	4673	6221
55°	2197	4655	4601
60°	1959	4525	4616
65°	1894	3396	2977
70°	1819	3480	1692
75°	1754	2453	1510
80°	1599	1995	1800
85°	1432	2488	2243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	4.1
10°-20°	1002.1	11.5
20°-30°	1449.9	16.6
30°-40°	1654.8	18.9
40°-50°	1626.0	18.6
50°-60°	1297.0	14.8
60°-70°	816.9	9.3
70°-80°	361.9	4.1
80°-90°	138.8	1.6
90°-100°	27.5	0.3
100°-110°	1.8	0.0
110°-120°	0.2	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2813.5	32.2
0°-40°	4468.3	51.1
0°-60°	7391.3	84.6
0°-90°	8708.9	99.6
90°-120°	29.6	0.3
90°-150°	30.7	0.4
90°-180°	31.0	0.4
0°-180°	8740.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3859	3859	3859	3859	3859	
5°	3811	3820	3806	3838	3852	358
15°	3391	3424	3528	3694	3760	955
25°	2821	2912	3101	3385	3548	1300
35°	2158	2289	2610	2995	3227	1349
45°	1446	1656	2096	2565	2798	1111
55°	780	1057	1654	1783	1634	718
65°	496	675	889	947	779	491
75°	281	325	393	298	242	295
85°	77	94	134	173	121	82
90°	1	32	71	103	20	4
95°	1	5	29	50	7	0
105°	1	1	1	2	0	1
115°	1	1	0	0	0	1
125°	1	1	0	0	0	1
135°	1	1	1	0	0	1
145°	1	1	1	0	0	1
155°	1	1	1	0	0	1
165°	2	2	1	1	0	1
175°	2	2	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3859.4	3859.4	3859.4	3859.4	3859.4
2.5°	3849.2	3846.8	3823.4	3856.4	3860.0
5°	3811.4	3819.8	3806.0	3837.8	3851.6
7.5°	3738.9	3747.9	3764.1	3822.2	3839.0
10°	3621.4	3644.2	3701.2	3782.7	3818.6
12.5°	3531.5	3559.7	3610.6	3749.1	3790.5
15°	3390.7	3424.2	3528.5	3694.0	3760.5
17.5°	3270.8	3331.9	3442.8	3624.4	3717.3
20°	3136.5	3185.7	3311.0	3556.1	3667.0
22.5°	3002.3	3064.6	3235.4	3465.0	3616.0
25°	2821.3	2912.4	3101.2	3385.3	3548.3
27.5°	2667.8	2782.9	2999.9	3291.2	3472.8
30°	2503.0	2592.3	2872.2	3195.3	3396.1
32.5°	2317.2	2457.4	2734.4	3085.6	3315.8
35°	2158.4	2289.0	2610.3	2995.1	3227.0
37.5°	2004.9	2127.8	2473.0	2892.6	3128.7
40°	1820.9	1982.7	2346.0	2775.7	3023.3
42.5°	1617.1	1815.5	2227.9	2665.4	2916.0
45°	1445.7	1656.1	2096.0	2565.3	2797.9
47.5°	1267.7	1489.5	1972.6	2443.7	2681.0
50°	1074.1	1343.8	1860.5	2331.0	2476.6
52.5°	932.6	1192.2	1759.8	2127.2	2087.6
55°	780.4	1056.7	1653.7	1783.1	1634.5
57.5°	664.7	934.4	1554.2	1400.1	1560.2
60°	606.6	836.7	1401.3	1333.0	1429.5
62.5°	552.0	751.0	1071.7	1250.3	1176.0
65°	495.7	674.9	888.9	947.0	779.2
67.5°	441.1	609.0	837.9	707.3	678.5
70°	385.4	558.0	737.2	603.0	358.4
72.5°	332.7	499.3	504.1	333.9	266.1
75°	281.1	324.9	393.2	297.9	242.1
77.5°	224.8	278.7	263.1	266.7	219.4
80°	172.0	191.8	214.6	238.6	193.6
82.5°	121.7	142.7	173.8	208.6	158.8
85°	77.3	94.1	134.3	173.2	121.1
87.5°	30.6	59.3	100.1	139.7	71.3
90°	0.6	32.4	70.7	103.1	19.8
92.5°	0.6	15.0	47.4	75.5	10.2
95°	0.6	4.8	29.4	50.3	6.6
97.5°	0.6	1.8	15.6	31.2	3.6
100°	0.6	0.6	6.6	16.8	1.8
102.5°	0.6	0.6	2.4	6.6	0.6
105°	0.6	0.6	0.6	1.8	0.0
107.5°	0.6	0.6	0.0	0.0	0.0
110°	0.6	0.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.0	0.0	0.0
115°	0.6	0.6	0.0	0.0	0.0
117.5°	0.6	0.6	0.0	0.0	0.0
120°	0.6	0.6	0.0	0.0	0.0
122.5°	0.6	0.6	0.0	0.0	0.0
125°	0.6	1.2	0.0	0.0	0.0
127.5°	0.6	0.6	0.0	0.0	0.0
130°	0.6	1.2	0.6	0.0	0.0
132.5°	0.6	1.2	0.6	0.0	0.0
135°	0.6	1.2	0.6	0.0	0.0
137.5°	0.6	1.2	0.6	0.0	0.0
140°	1.2	1.2	0.6	0.0	0.0
142.5°	1.2	1.2	0.6	0.0	0.0
145°	1.2	1.2	0.6	0.0	0.0
147.5°	1.2	1.2	0.6	0.0	0.0
150°	1.2	1.2	0.6	0.0	0.0
152.5°	1.2	1.2	0.6	0.0	0.0
155°	1.2	1.2	0.6	0.0	0.0
157.5°	1.2	1.8	0.6	0.0	0.0
160°	1.8	1.8	0.6	0.0	0.0
162.5°	1.8	1.8	1.2	0.6	0.0
165°	1.8	1.8	1.2	0.6	0.0
167.5°	1.8	1.8	1.2	0.6	0.0
170°	1.8	1.8	1.2	0.6	0.6
172.5°	1.8	1.8	1.2	0.6	0.6
175°	1.8	1.8	1.2	0.6	0.6
177.5°	1.8	1.8	1.2	0.6	0.6
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)