

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: P685318

Luminaire Tested: **8CZL-32-UNV-L840-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685318  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-32-UNV-L840-CD-U  
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 4000K  
Light Source: (1176) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

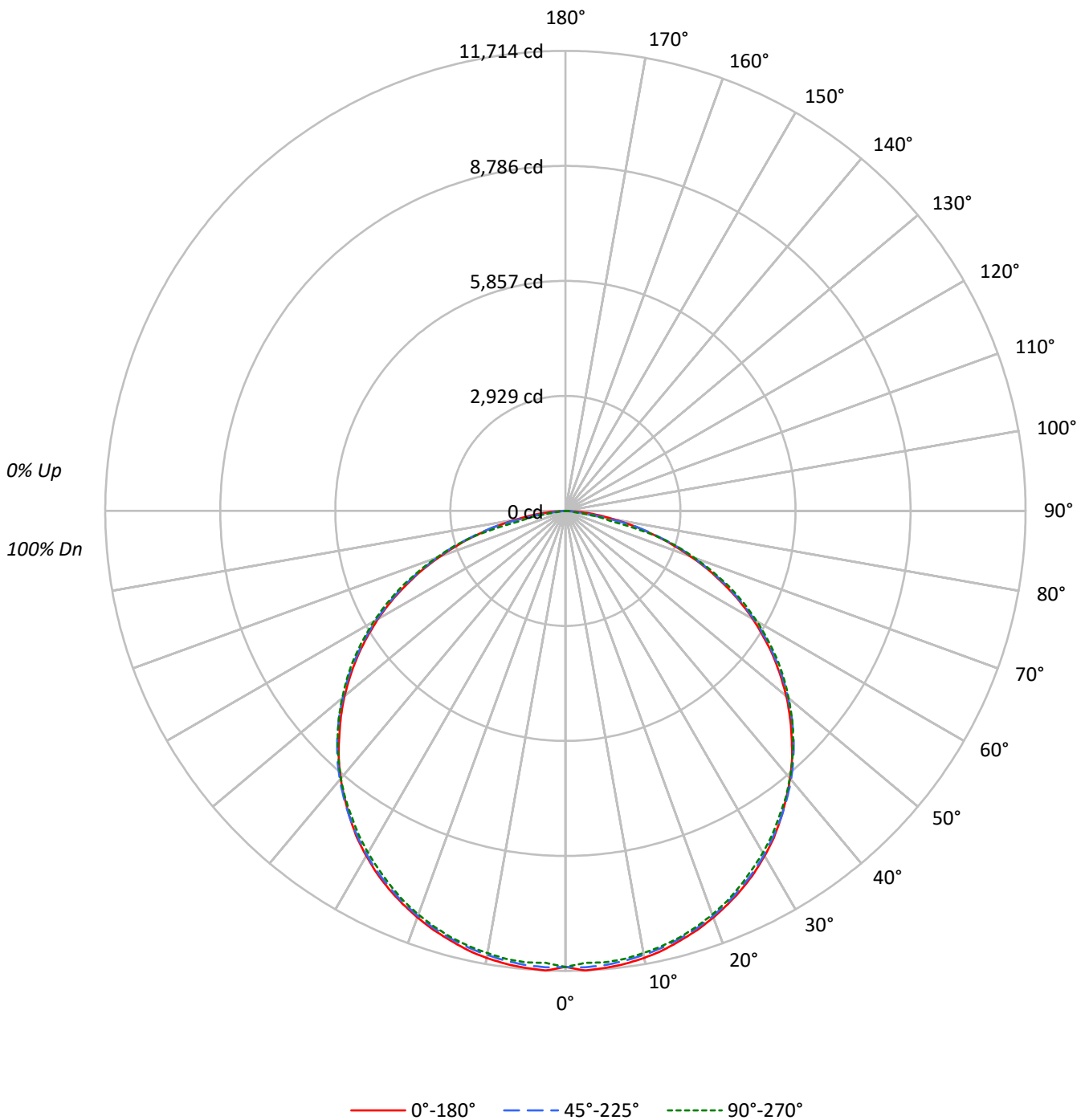
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34445.7 lumens  
Efficiency: N/A  
Efficacy: 167.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 206  
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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	42	34	29	55	42	34	29	41	33	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	25	25	25	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18748	18748	18748
5°	18935	18814	18699
10°	18951	18823	18742
15°	18925	18848	18789
20°	18930	18863	18790
25°	18934	18858	18763
30°	18910	18858	18739
35°	18842	18842	18709
40°	18753	18827	18738
45°	18595	18756	18716
50°	18437	18571	18633
55°	18191	18321	18500
60°	17794	17954	18171
65°	17131	17374	17672
70°	16022	16339	16490
75°	14417	14682	13931
80°	12044	9806	7635
85°	8983	2360	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1101.5	3.2
10°-20°	3176.1	9.2
20°-30°	4863.7	14.1
30°-40°	5954.8	17.3
40°-50°	6299.6	18.3
50°-60°	5809.2	16.9
60°-70°	4481.2	13.0
70°-80°	2393.3	6.9
80°-90°	366.2	1.1
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°	9141.4	26.5
0°-40°	15096.2	43.8
0°-60°	27204.9	79.0
0°-90°	34445.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34445.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11612	11612	11612	11612	11612	
5°	11682	11544	11608	11559	11537	1111
15°	11322	11201	11276	11237	11240	3199
25°	10628	10518	10585	10508	10532	4899
35°	9559	9502	9559	9478	9492	5981
45°	8144	8140	8214	8158	8196	6286
55°	6462	6455	6508	6547	6572	5765
65°	4484	4484	4548	4583	4626	4427
75°	2311	2308	2354	2371	2233	2447
85°	485	347	127	53	46	595
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11611.8	11611.8	11611.8	11611.8	11611.8
2.5°	11714.4	11576.4	11633.0	11590.5	11519.8
5°	11682.5	11544.5	11608.2	11558.7	11537.4
7.5°	11633.0	11491.4	11555.1	11516.2	11509.1
10°	11558.7	11413.6	11480.8	11438.4	11431.3
12.5°	11459.6	11318.0	11392.3	11342.8	11349.9
15°	11321.6	11201.2	11275.6	11236.6	11240.2
17.5°	11183.5	11059.7	11137.5	11098.6	11102.1
20°	11017.2	10896.9	10978.3	10918.1	10935.8
22.5°	10829.6	10723.5	10794.2	10716.4	10751.8
25°	10627.9	10518.2	10585.4	10507.6	10532.3
27.5°	10397.9	10295.2	10362.5	10281.1	10291.7
30°	10143.0	10051.0	10114.7	10033.3	10051.0
32.5°	9870.5	9789.1	9838.7	9764.4	9789.1
35°	9559.1	9502.5	9559.1	9477.7	9491.8
37.5°	9233.5	9176.9	9254.7	9183.9	9208.7
40°	8897.3	8844.2	8932.7	8861.9	8890.2
42.5°	8539.8	8500.9	8589.4	8518.6	8554.0
45°	8143.5	8139.9	8214.2	8157.6	8196.5
47.5°	7750.6	7743.5	7817.9	7778.9	7824.9
50°	7340.1	7333.0	7393.2	7389.6	7417.9
52.5°	6901.2	6911.9	6968.5	6979.1	7010.9
55°	6462.4	6455.3	6508.4	6547.3	6572.1
57.5°	5984.6	5998.8	6041.2	6087.2	6104.9
60°	5510.4	5503.3	5559.9	5598.8	5627.2
62.5°	5007.8	5007.8	5053.8	5110.5	5138.8
65°	4484.0	4484.0	4547.7	4583.1	4625.6
67.5°	3949.6	3939.0	3995.6	4073.5	4066.4
70°	3394.0	3397.5	3461.2	3500.2	3493.1
72.5°	2841.9	2852.5	2919.8	2937.4	2955.1
75°	2311.0	2307.5	2353.5	2371.2	2233.2
77.5°	1783.7	1787.2	1815.6	1330.7	1167.9
80°	1295.3	1302.4	1054.6	821.1	821.1
82.5°	856.5	842.3	541.5	318.5	233.6
85°	484.9	346.8	127.4	53.1	46.0
87.5°	198.2	63.7	35.4	24.8	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)