

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: P685596

Luminaire Tested: **8CZL-18-UNV-FL-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685596
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-FL-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

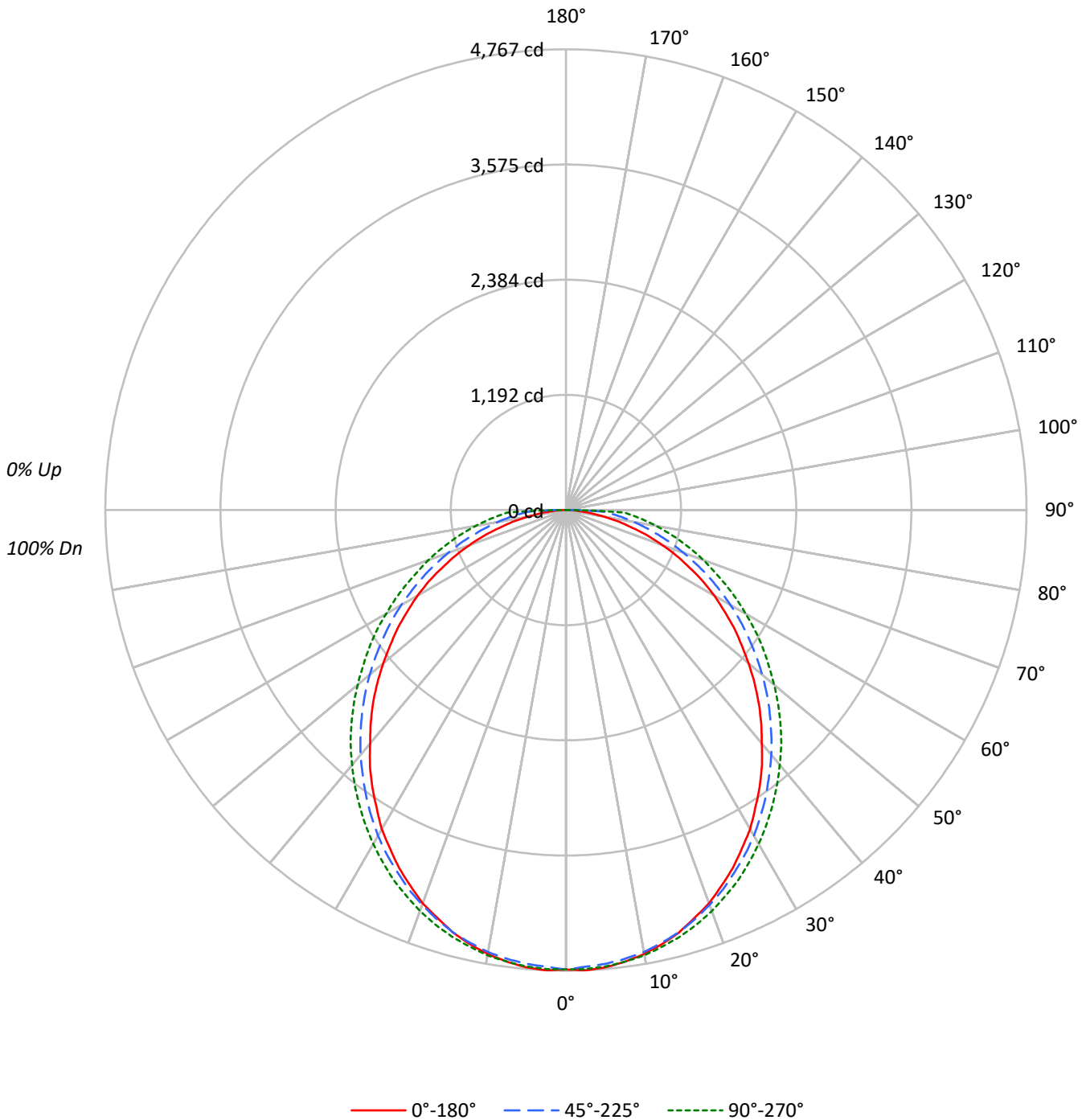
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13389.4 lumens
Efficiency: N/A
Efficacy: 122.8 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): 109
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	100				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82				82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68				68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57				57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42				42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37				37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7675	7675	7675
5°	7690	7587	7616
10°	7633	7511	7539
15°	7541	7403	7437
20°	7414	7264	7320
25°	7245	7102	7188
30°	7065	6941	7033
35°	6840	6743	6865
40°	6589	6543	6696
45°	6377	6321	6519
50°	6120	6092	6313
55°	5884	5842	6127
60°	5626	5593	5914
65°	5281	5325	5727
70°	4880	5029	5615
75°	4286	4780	5550
80°	3522	4617	5623
85°	2364	4723	6092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	3.4
10°-20°	1279.4	9.6
20°-30°	1910.9	14.3
30°-40°	2260.0	16.9
40°-50°	2302.8	17.2
50°-60°	2063.5	15.4
60°-70°	1607.2	12.0
70°-80°	1040.5	7.8
80°-90°	475.5	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°	3640.0	27.2
0°-40°	5899.9	44.1
0°-60°	10266.2	76.7
0°-90°	13389.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13389.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4753	4753	4753	4753	4753	
5°	4749	4741	4713	4741	4740	450
15°	4524	4524	4521	4564	4568	1274
25°	4087	4101	4132	4205	4223	1880
35°	3496	3529	3608	3705	3727	2184
45°	2822	2872	2984	3098	3141	2174
55°	2122	2181	2307	2440	2487	1894
65°	1413	1474	1627	1764	1821	1404
75°	714	805	989	1154	1222	766
85°	143	276	482	657	705	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4753.4	4753.4	4753.4	4753.4	4753.4
2.5°	4767.0	4758.8	4729.9	4755.2	4754.3
5°	4748.9	4740.8	4712.8	4740.8	4739.9
7.5°	4711.9	4709.2	4683.9	4714.6	4711.9
10°	4664.0	4660.4	4644.1	4674.8	4679.3
12.5°	4600.7	4598.9	4586.3	4622.4	4625.1
15°	4523.9	4523.9	4521.2	4563.7	4568.2
17.5°	4425.4	4438.1	4440.8	4486.9	4496.8
20°	4331.5	4335.1	4347.7	4403.8	4415.5
22.5°	4207.7	4223.1	4248.4	4309.8	4319.7
25°	4086.6	4101.1	4131.8	4205.0	4223.1
27.5°	3945.7	3973.7	4016.2	4089.3	4107.4
30°	3812.0	3835.4	3890.6	3971.9	3990.0
32.5°	3648.4	3688.2	3751.4	3837.3	3861.7
35°	3495.7	3529.2	3607.8	3705.3	3727.0
37.5°	3332.2	3371.9	3455.1	3559.0	3588.8
40°	3153.3	3211.1	3307.8	3411.7	3443.3
42.5°	2989.8	3043.1	3145.2	3262.6	3298.8
45°	2821.7	2872.3	2984.3	3098.2	3140.6
47.5°	2646.4	2698.8	2820.8	2941.9	2979.8
50°	2466.6	2529.0	2650.9	2778.3	2812.7
52.5°	2287.7	2350.1	2479.3	2606.7	2645.5
55°	2121.5	2181.1	2306.7	2439.5	2487.4
57.5°	1940.8	2004.0	2142.2	2270.5	2322.1
60°	1773.6	1819.7	1966.1	2098.9	2148.6
62.5°	1601.0	1650.7	1793.5	1929.9	1988.7
65°	1413.1	1474.5	1627.2	1763.7	1820.6
67.5°	1241.4	1300.2	1457.4	1611.0	1657.1
70°	1063.4	1131.2	1293.8	1451.1	1516.1
72.5°	893.6	964.1	1143.0	1299.3	1365.2
75°	713.8	805.0	989.4	1153.8	1221.6
77.5°	565.6	656.0	844.8	1016.5	1081.5
80°	401.2	512.3	716.5	890.0	947.8
82.5°	267.4	380.4	594.5	763.5	825.8
85°	142.8	275.6	482.5	656.9	704.7
87.5°	62.3	192.5	391.2	546.6	603.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)