

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: P685595

Luminaire Tested: **8CZL-14-UNV-FL-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685595
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-FL-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

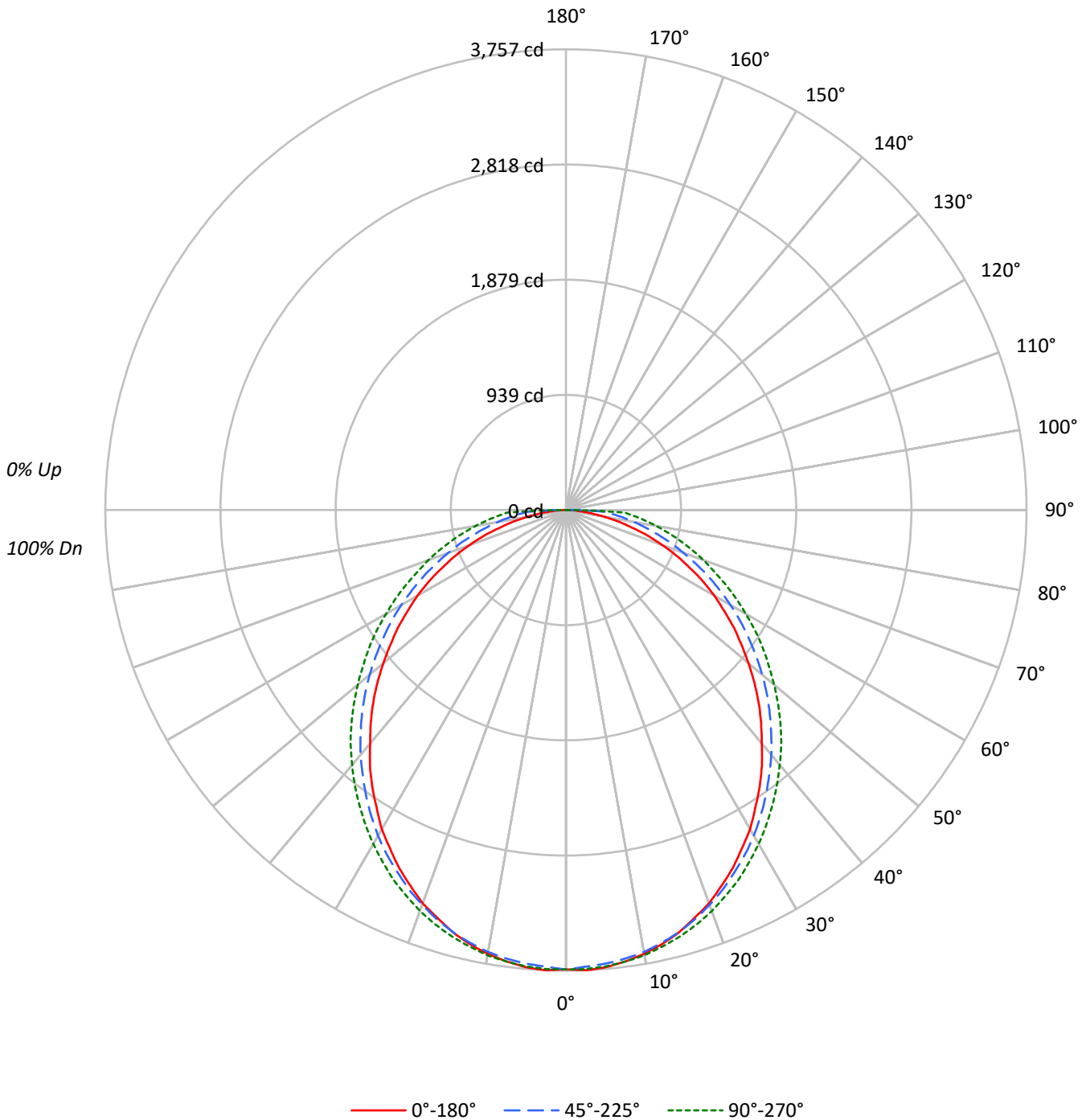
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10551.9 lumens
Efficiency: N/A
Efficacy: 118.6 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): 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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	59	59	59	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	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	43	34	29	55	42	34	29	41	34	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	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6048	6048	6048
5°	6060	5979	6002
10°	6015	5919	5941
15°	5943	5834	5861
20°	5843	5725	5769
25°	5710	5597	5665
30°	5567	5470	5542
35°	5391	5314	5411
40°	5192	5157	5277
45°	5025	4981	5138
50°	4823	4801	4975
55°	4637	4604	4829
60°	4433	4407	4660
65°	4161	4197	4514
70°	3846	3963	4425
75°	3378	3767	4373
80°	2775	3639	4432
85°	1862	3722	4801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.3	3.4
10°-20°	1008.3	9.6
20°-30°	1505.9	14.3
30°-40°	1781.0	16.9
40°-50°	1814.8	17.2
50°-60°	1626.2	15.4
60°-70°	1266.6	12.0
70°-80°	820.0	7.8
80°-90°	374.7	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°	2868.6	27.2
0°-40°	4649.6	44.1
0°-60°	8090.5	76.7
0°-90°	10551.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10551.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3746	3746	3746	3746	3746	
5°	3742	3736	3714	3736	3735	355
15°	3565	3565	3563	3596	3600	1004
25°	3221	3232	3256	3314	3328	1482
35°	2755	2781	2843	2920	2937	1721
45°	2224	2264	2352	2442	2475	1714
55°	1672	1719	1818	1922	1960	1492
65°	1114	1162	1282	1390	1435	1106
75°	562	634	780	909	963	604
85°	112	217	380	518	555	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3746.1	3746.1	3746.1	3746.1	3746.1
2.5°	3756.7	3750.3	3727.5	3747.5	3746.8
5°	3742.5	3736.1	3714.0	3736.1	3735.4
7.5°	3713.3	3711.2	3691.2	3715.4	3713.3
10°	3675.6	3672.7	3659.9	3684.1	3687.7
12.5°	3625.7	3624.3	3614.3	3642.8	3645.0
15°	3565.2	3565.2	3563.1	3596.5	3600.1
17.5°	3487.6	3497.6	3499.7	3536.0	3543.8
20°	3413.5	3416.4	3426.4	3470.5	3479.8
22.5°	3316.0	3328.1	3348.0	3396.4	3404.3
25°	3220.6	3232.0	3256.2	3313.9	3328.1
27.5°	3109.5	3131.6	3165.0	3222.7	3236.9
30°	3004.1	3022.6	3066.1	3130.1	3144.4
32.5°	2875.2	2906.6	2956.4	3024.0	3043.3
35°	2754.9	2781.2	2843.2	2920.1	2937.2
37.5°	2626.0	2657.3	2722.9	2804.7	2828.2
40°	2485.0	2530.6	2606.8	2688.7	2713.6
42.5°	2356.2	2398.2	2478.6	2571.2	2599.7
45°	2223.7	2263.6	2351.9	2441.6	2475.1
47.5°	2085.6	2126.9	2223.0	2318.4	2348.3
50°	1943.9	1993.0	2089.1	2189.5	2216.6
52.5°	1802.9	1852.0	1953.8	2054.2	2084.9
55°	1671.9	1718.9	1817.8	1922.5	1960.3
57.5°	1529.5	1579.3	1688.3	1789.4	1830.0
60°	1397.7	1434.1	1549.4	1654.1	1693.2
62.5°	1261.7	1300.9	1413.4	1520.9	1567.2
65°	1113.6	1162.1	1282.4	1389.9	1434.8
67.5°	978.3	1024.6	1148.5	1269.6	1305.9
70°	838.1	891.5	1019.6	1143.5	1194.8
72.5°	704.2	759.8	900.7	1023.9	1075.9
75°	562.5	634.4	779.7	909.3	962.7
77.5°	445.7	516.9	665.8	801.0	852.3
80°	316.1	403.7	564.7	701.4	746.9
82.5°	210.8	299.8	468.5	601.7	650.8
85°	112.5	217.2	380.2	517.7	555.4
87.5°	49.1	151.7	308.3	430.8	475.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)