

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: P685314

Luminaire Tested: **8CZL-10-UNV-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685314
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 4000K
Light Source: (784) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

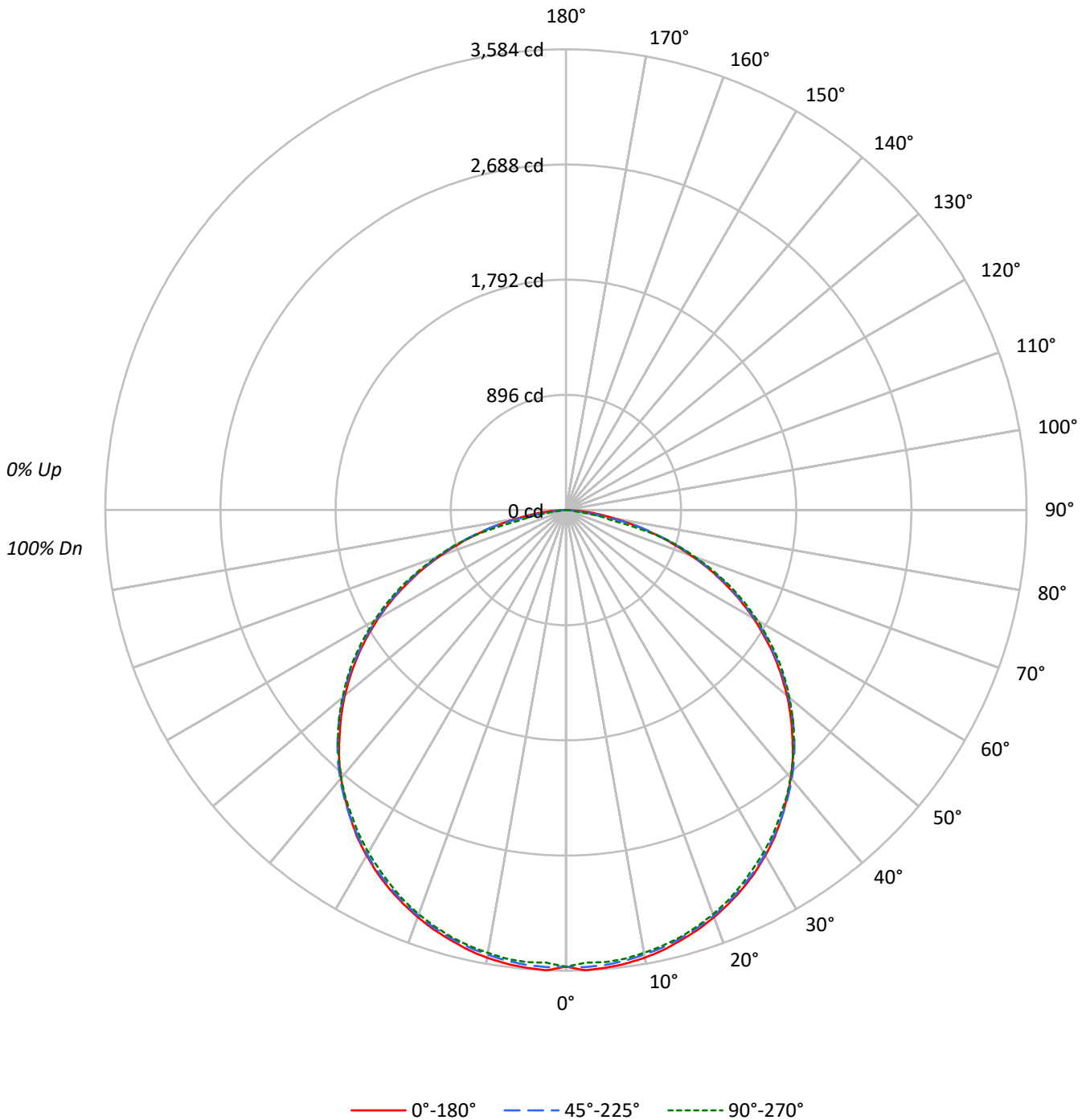
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10538.9 lumens
Efficiency: N/A
Efficacy: 167.3 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): 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	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°	5736	5736	5736
5°	5793	5756	5721
10°	5798	5759	5734
15°	5790	5767	5748
20°	5792	5771	5749
25°	5793	5770	5741
30°	5786	5770	5733
35°	5765	5765	5724
40°	5738	5760	5733
45°	5689	5739	5726
50°	5641	5682	5701
55°	5566	5605	5660
60°	5444	5493	5560
65°	5241	5316	5407
70°	4902	4999	5045
75°	4411	4492	4263
80°	3685	3000	2336
85°	2747	722	261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	3.2
10°-20°	971.8	9.2
20°-30°	1488.1	14.1
30°-40°	1821.9	17.3
40°-50°	1927.4	18.3
50°-60°	1777.4	16.9
60°-70°	1371.1	13.0
70°-80°	732.2	6.9
80°-90°	112.1	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°	2796.9	26.5
0°-40°	4618.8	43.8
0°-60°	8323.6	79.0
0°-90°	10538.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10538.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3553	3553	3553	3553	3553	
5°	3574	3532	3552	3536	3530	340
15°	3464	3427	3450	3438	3439	979
25°	3252	3218	3239	3215	3222	1499
35°	2925	2907	2925	2900	2904	1830
45°	2492	2490	2513	2496	2508	1923
55°	1977	1975	1991	2003	2011	1764
65°	1372	1372	1391	1402	1415	1354
75°	707	706	720	726	683	749
85°	148	106	39	16	14	182
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3552.7	3552.7	3552.7	3552.7	3552.7
2.5°	3584.1	3541.9	3559.2	3546.2	3524.5
5°	3574.4	3532.1	3551.6	3536.5	3530.0
7.5°	3559.2	3515.9	3535.4	3523.5	3521.3
10°	3536.5	3492.1	3512.6	3499.6	3497.5
12.5°	3506.1	3462.8	3485.6	3470.4	3472.6
15°	3463.9	3427.1	3449.8	3437.9	3439.0
17.5°	3421.7	3383.8	3407.6	3395.7	3396.8
20°	3370.8	3334.0	3358.9	3340.5	3345.9
22.5°	3313.4	3280.9	3302.6	3278.8	3289.6
25°	3251.7	3218.1	3238.7	3214.9	3222.4
27.5°	3181.3	3149.9	3170.5	3145.6	3148.8
30°	3103.3	3075.2	3094.7	3069.8	3075.2
32.5°	3020.0	2995.1	3010.2	2987.5	2995.1
35°	2924.7	2907.3	2924.7	2899.8	2904.1
37.5°	2825.1	2807.7	2831.6	2809.9	2817.5
40°	2722.2	2705.9	2733.0	2711.4	2720.0
42.5°	2612.8	2600.9	2628.0	2606.3	2617.2
45°	2491.5	2490.5	2513.2	2495.9	2507.8
47.5°	2371.4	2369.2	2391.9	2380.0	2394.1
50°	2245.8	2243.6	2262.0	2260.9	2269.6
52.5°	2111.5	2114.7	2132.1	2135.3	2145.0
55°	1977.2	1975.0	1991.3	2003.2	2010.8
57.5°	1831.0	1835.4	1848.4	1862.4	1867.8
60°	1685.9	1683.8	1701.1	1713.0	1721.7
62.5°	1532.2	1532.2	1546.3	1563.6	1572.2
65°	1371.9	1371.9	1391.4	1402.2	1415.2
67.5°	1208.4	1205.2	1222.5	1246.3	1244.1
70°	1038.4	1039.5	1059.0	1070.9	1068.7
72.5°	869.5	872.7	893.3	898.7	904.1
75°	707.1	706.0	720.1	725.5	683.3
77.5°	545.7	546.8	555.5	407.1	357.3
80°	396.3	398.5	322.7	251.2	251.2
82.5°	262.0	257.7	165.7	97.5	71.5
85°	148.3	106.1	39.0	16.2	14.1
87.5°	60.6	19.5	10.8	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)