

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: P685544

Luminaire Tested: **8CZL-10-UNV-FL-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685544
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-FL-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

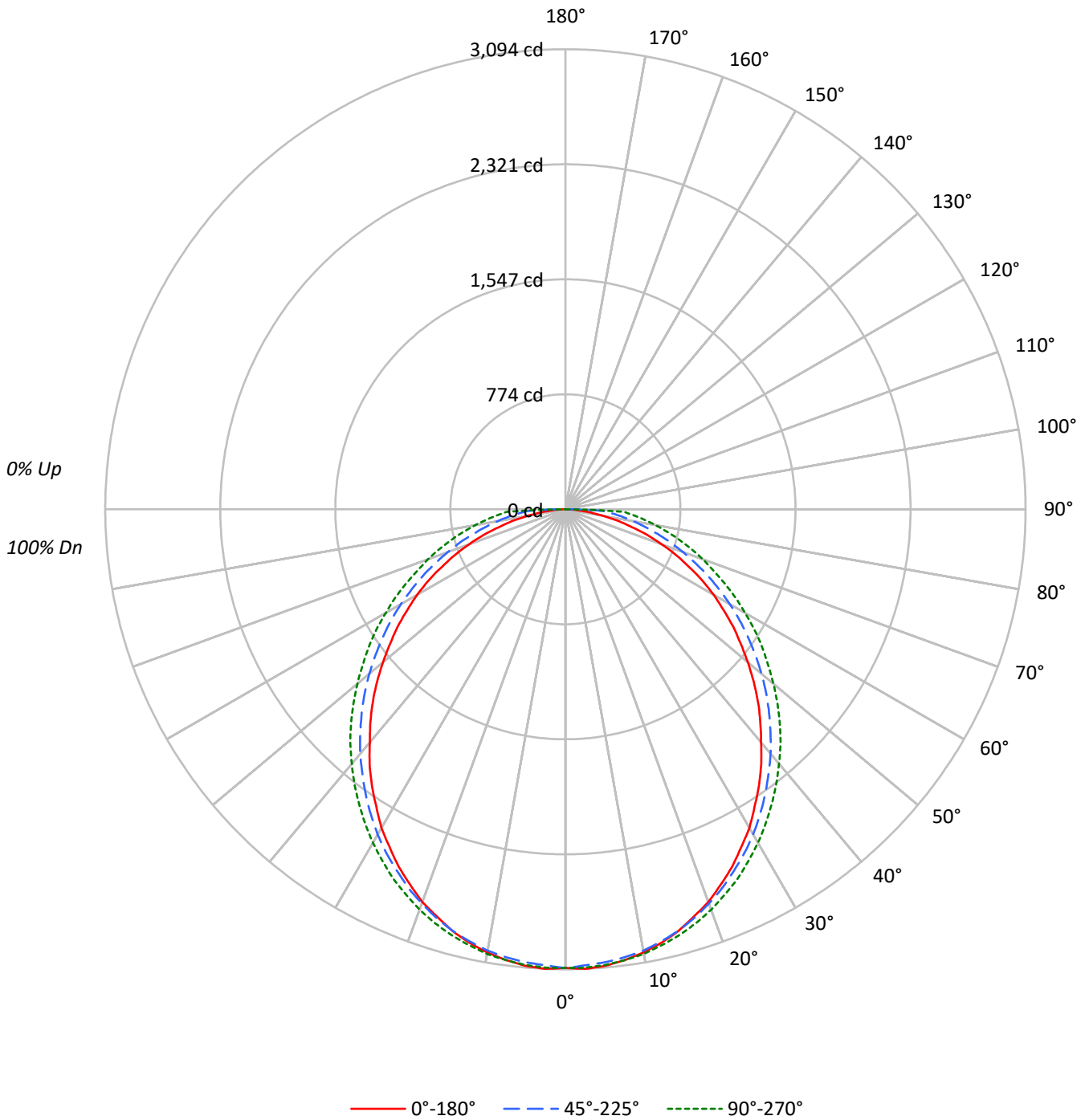
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8689.6 lumens
Efficiency: N/A
Efficacy: 137.9 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): 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	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°	4981	4981	4981
5°	4991	4924	4942
10°	4954	4874	4893
15°	4894	4804	4826
20°	4812	4714	4751
25°	4702	4609	4665
30°	4585	4504	4564
35°	4439	4376	4456
40°	4276	4246	4345
45°	4138	4102	4231
50°	3972	3954	4097
55°	3819	3791	3976
60°	3651	3630	3838
65°	3427	3456	3717
70°	3168	3264	3644
75°	2781	3102	3602
80°	2286	2997	3650
85°	1533	3065	3954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	3.4
10°-20°	830.3	9.6
20°-30°	1240.2	14.3
30°-40°	1466.7	16.9
40°-50°	1494.5	17.2
50°-60°	1339.2	15.4
60°-70°	1043.1	12.0
70°-80°	675.3	7.8
80°-90°	308.6	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°	2362.3	27.2
0°-40°	3829.0	44.1
0°-60°	6662.7	76.7
0°-90°	8689.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8689.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3085	3085	3085	3085	3085	
5°	3082	3077	3059	3077	3076	292
15°	2936	2936	2934	2962	2965	827
25°	2652	2662	2682	2729	2741	1220
35°	2269	2290	2341	2405	2419	1418
45°	1831	1864	1937	2011	2038	1411
55°	1377	1416	1497	1583	1614	1229
65°	917	957	1056	1145	1182	911
75°	463	522	642	749	793	497
85°	93	179	313	426	457	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3084.9	3084.9	3084.9	3084.9	3084.9
2.5°	3093.7	3088.5	3069.7	3086.1	3085.5
5°	3082.0	3076.7	3058.6	3076.7	3076.1
7.5°	3058.0	3056.2	3039.8	3059.7	3058.0
10°	3026.9	3024.5	3014.0	3033.9	3036.9
12.5°	2985.8	2984.7	2976.5	2999.9	3001.7
15°	2936.0	2936.0	2934.2	2961.8	2964.7
17.5°	2872.1	2880.3	2882.1	2912.0	2918.4
20°	2811.1	2813.4	2821.7	2858.0	2865.6
22.5°	2730.8	2740.7	2757.2	2797.0	2803.5
25°	2652.2	2661.6	2681.5	2729.0	2740.7
27.5°	2560.7	2578.9	2606.5	2654.0	2665.7
30°	2473.9	2489.2	2524.9	2577.7	2589.5
32.5°	2367.8	2393.6	2434.6	2490.4	2506.2
35°	2268.7	2290.4	2341.4	2404.7	2418.8
37.5°	2162.6	2188.4	2242.3	2309.7	2329.1
40°	2046.5	2084.0	2146.7	2214.2	2234.7
42.5°	1940.3	1974.9	2041.2	2117.4	2140.9
45°	1831.3	1864.1	1936.8	2010.7	2038.3
47.5°	1717.5	1751.5	1830.7	1909.3	1933.9
50°	1600.8	1641.3	1720.4	1803.1	1825.4
52.5°	1484.7	1525.2	1609.0	1691.7	1716.9
55°	1376.8	1415.5	1497.0	1583.2	1614.3
57.5°	1259.5	1300.6	1390.3	1473.6	1507.0
60°	1151.1	1181.0	1276.0	1362.2	1394.4
62.5°	1039.1	1071.3	1164.0	1252.5	1290.6
65°	917.1	957.0	1056.1	1144.6	1181.6
67.5°	805.7	843.8	945.8	1045.5	1075.4
70°	690.2	734.1	839.7	941.7	983.9
72.5°	579.9	625.7	741.8	843.2	886.0
75°	463.2	522.5	642.1	748.8	792.8
77.5°	367.1	425.7	548.3	659.7	701.9
80°	260.4	332.5	465.0	577.6	615.1
82.5°	173.6	246.9	385.8	495.5	536.0
85°	92.6	178.8	313.1	426.3	457.4
87.5°	40.5	124.9	253.9	354.8	391.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)