

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: P685564

Luminaire Tested: **8CZL-10-UNV-FL-L850-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685564  
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-L850-CD-U  
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 5000K  
Light Source: (784) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

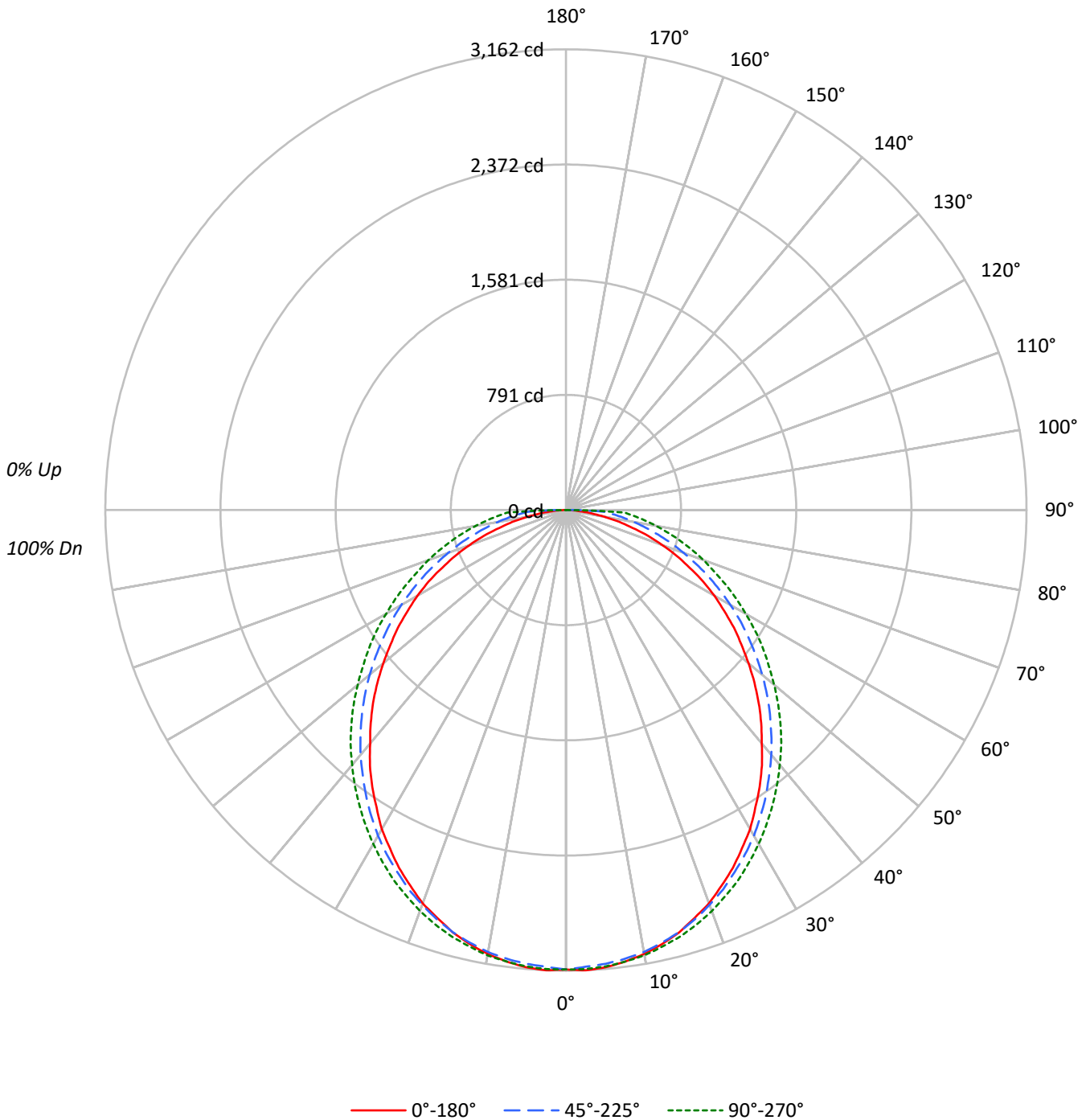
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8881.6 lumens  
Efficiency: N/A  
Efficacy: 141.0 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 (A<sub>in</sub>): 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°	5091	5091	5091
5°	5101	5032	5052
10°	5063	4982	5001
15°	5002	4910	4933
20°	4918	4818	4856
25°	4806	4711	4768
30°	4686	4604	4665
35°	4537	4472	4554
40°	4370	4340	4441
45°	4230	4193	4325
50°	4060	4041	4187
55°	3903	3875	4064
60°	3732	3710	3923
65°	3503	3532	3799
70°	3237	3336	3724
75°	2843	3170	3681
80°	2336	3063	3730
85°	1568	3133	4041



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.3	3.4
10°-20°	848.7	9.6
20°-30°	1267.6	14.3
30°-40°	1499.1	16.9
40°-50°	1527.5	17.2
50°-60°	1368.8	15.4
60°-70°	1066.1	12.0
70°-80°	690.2	7.8
80°-90°	315.4	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°	2414.5	27.2
0°-40°	3913.6	44.1
0°-60°	6809.8	76.7
0°-90°	8881.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8881.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3153	3153	3153	3153	3153	
5°	3150	3145	3126	3145	3144	299
15°	3001	3001	2999	3027	3030	845
25°	2711	2720	2741	2789	2801	1247
35°	2319	2341	2393	2458	2472	1449
45°	1872	1905	1980	2055	2083	1442
55°	1407	1447	1530	1618	1650	1256
65°	937	978	1079	1170	1208	931
75°	474	534	656	765	810	508
85°	95	183	320	436	468	121
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3153.1	3153.1	3153.1	3153.1	3153.1
2.5°	3162.1	3156.7	3137.5	3154.3	3153.7
5°	3150.1	3144.7	3126.1	3144.7	3144.1
7.5°	3125.5	3123.7	3106.9	3127.3	3125.5
10°	3093.7	3091.3	3080.6	3100.9	3103.9
12.5°	3051.8	3050.6	3042.2	3066.2	3068.0
15°	3000.8	3000.8	2999.0	3027.2	3030.2
17.5°	2935.5	2943.9	2945.7	2976.3	2982.9
20°	2873.2	2875.6	2884.0	2921.1	2928.9
22.5°	2791.1	2801.3	2818.1	2858.8	2865.4
25°	2710.8	2720.4	2740.7	2789.3	2801.3
27.5°	2617.3	2635.9	2664.0	2712.6	2724.6
30°	2528.6	2544.2	2580.7	2634.7	2646.6
32.5°	2420.1	2446.5	2488.4	2545.4	2561.5
35°	2318.8	2341.0	2393.1	2457.9	2472.2
37.5°	2210.3	2236.7	2291.8	2360.8	2380.5
40°	2091.7	2130.0	2194.1	2263.1	2284.0
42.5°	1983.2	2018.5	2086.3	2164.2	2188.2
45°	1871.7	1905.3	1979.6	2055.1	2083.3
47.5°	1755.4	1790.2	1871.1	1951.4	1976.6
50°	1636.2	1677.5	1758.4	1842.9	1865.7
52.5°	1517.5	1558.9	1644.6	1729.1	1754.8
55°	1407.2	1446.8	1530.1	1618.2	1650.0
57.5°	1287.4	1329.3	1421.0	1506.1	1540.3
60°	1176.5	1207.1	1304.1	1392.2	1425.2
62.5°	1062.0	1095.0	1189.7	1280.2	1319.1
65°	937.4	978.1	1079.4	1169.9	1207.7
67.5°	823.5	862.4	966.7	1068.6	1099.2
70°	705.4	750.4	858.2	962.5	1005.7
72.5°	592.7	639.5	758.2	861.8	905.6
75°	473.5	534.0	656.3	765.3	810.3
77.5°	375.2	435.1	560.4	674.2	717.4
80°	266.1	339.8	475.3	590.3	628.7
82.5°	177.4	252.3	394.4	506.4	547.8
85°	94.7	182.8	320.0	435.7	467.5
87.5°	41.4	127.7	259.5	362.6	400.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)