

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: P685947

Luminaire Tested: **8CZL-24-UNV-LVRF-L940-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685947
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-LVRF-L940-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @90 CRI and 4000K
Light Source: (1176) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

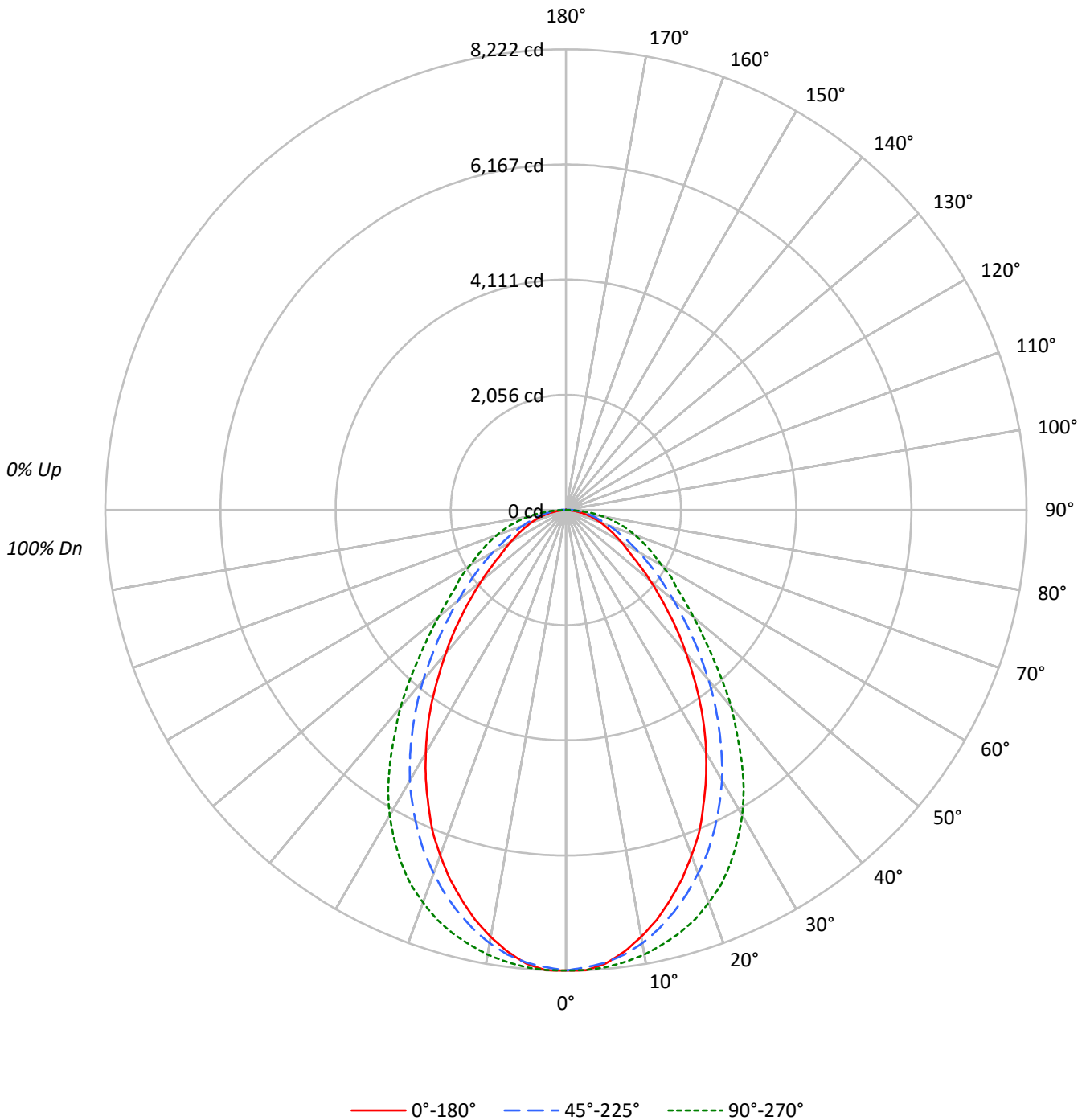
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15160.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.12
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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				
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	76	76	76	74
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	47	47	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	43	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	39	39	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13269	13269	13269
5°	13173	13142	13274
10°	12680	12868	13209
15°	12031	12419	13070
20°	11268	11852	12810
25°	10346	11182	12385
30°	9326	10392	11728
35°	8214	9398	10772
40°	7030	8345	9687
45°	5923	7274	8436
50°	4946	6305	7459
55°	4093	5539	6763
60°	3688	4855	6377
65°	3353	4273	6236
70°	3122	3836	6189
75°	2896	3581	6314
80°	2625	3547	6325
85°	2255	4157	6258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.0	5.1
10°-20°	2101.5	13.9
20°-30°	2903.7	19.2
30°-40°	2987.0	19.7
40°-50°	2448.8	16.2
50°-60°	1757.2	11.6
60°-70°	1181.9	7.8
70°-80°	689.8	4.6
80°-90°	265.8	1.8
90°-100°	46.1	0.3
100°-110°	3.9	0.0
110°-120°	0.7	0.0
120°-130°	0.7	0.0
130°-140°	1.0	0.0
140°-150°	1.2	0.0
150°-160°	1.0	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	5774.2	38.1
0°-40°	8761.2	57.8
0°-60°	12967.2	85.5
0°-90°	15104.7	99.6
90°-120°	50.7	0.3
90°-150°	53.6	0.4
90°-180°	56.0	0.4
0°-180°	15160.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8218	8218	8218	8218	8218	
5°	8127	8133	8108	8184	8190	763
15°	7198	7271	7429	7718	7819	2019
25°	5808	5944	6277	6714	6952	2666
35°	4167	4360	4768	5215	5465	2596
45°	2594	2796	3186	3498	3695	2013
55°	1454	1628	1968	2237	2402	1338
65°	878	930	1118	1436	1632	874
75°	464	481	574	797	1012	493
85°	122	151	224	335	338	132
90°	1	51	115	175	37	7
95°	1	8	48	84	15	0
105°	0	1	2	5	2	0
115°	1	1	1	0	0	1
125°	1	1	1	0	0	1
135°	1	2	1	1	0	1
145°	2	2	2	1	1	1
155°	2	4	2	1	1	1
165°	4	4	4	2	1	1
175°	4	5	4	2	2	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8218.4	8218.4	8218.4	8218.4	8218.4
2.5°	8221.9	8214.8	8168.7	8221.9	8219.5
5°	8127.4	8133.3	8108.5	8184.1	8190.0
7.5°	7951.4	7975.0	8002.2	8113.2	8133.3
10°	7734.1	7769.5	7848.7	8014.0	8056.5
12.5°	7489.6	7528.6	7657.3	7885.3	7944.3
15°	7197.8	7271.1	7429.4	7717.5	7819.1
17.5°	6896.7	6986.4	7182.5	7523.8	7660.9
20°	6557.7	6647.4	6897.8	7278.2	7455.3
22.5°	6217.5	6304.9	6610.8	7016.0	7236.8
25°	5807.7	5943.5	6276.6	6713.6	6952.2
27.5°	5415.5	5559.6	5930.5	6399.4	6636.8
30°	5002.1	5171.0	5573.8	6021.4	6290.7
32.5°	4592.3	4763.5	5174.6	5641.1	5908.0
35°	4167.1	4359.6	4768.2	5214.7	5465.1
37.5°	3735.9	3946.2	4366.7	4806.0	5008.0
40°	3335.5	3542.2	3959.2	4352.5	4595.8
42.5°	2965.8	3169.0	3555.2	3911.9	4130.4
45°	2593.8	2795.8	3185.5	3498.5	3694.6
47.5°	2260.7	2467.4	2830.0	3146.5	3310.7
50°	1969.0	2156.8	2509.9	2796.9	2969.4
52.5°	1702.0	1873.3	2222.9	2501.6	2668.2
55°	1454.0	1627.6	1967.8	2237.1	2402.4
57.5°	1287.4	1411.5	1717.4	2016.2	2228.8
60°	1142.2	1218.9	1503.6	1857.9	1974.9
62.5°	994.5	1064.2	1298.1	1609.9	1791.8
65°	877.6	929.6	1118.5	1436.3	1632.3
67.5°	761.8	800.8	962.6	1268.5	1467.0
70°	661.4	686.2	812.6	1103.2	1311.1
72.5°	565.8	578.8	692.1	952.0	1158.7
75°	464.2	480.7	574.0	797.3	1012.2
77.5°	367.3	391.0	473.6	665.0	844.5
80°	282.3	301.2	381.5	546.9	680.3
82.5°	196.1	222.1	297.6	432.3	520.9
85°	121.7	151.2	224.4	335.4	337.8
87.5°	50.8	94.5	164.2	248.0	172.4
90°	1.2	50.8	114.6	174.8	36.6
92.5°	0.0	23.6	78.0	125.2	21.3
95°	1.2	8.3	48.4	83.9	15.4
97.5°	0.0	2.4	26.0	53.2	9.4
100°	0.0	1.2	10.6	29.5	5.9
102.5°	0.0	1.2	4.7	13.0	3.5
105°	0.0	1.2	2.4	4.7	2.4
107.5°	0.0	1.2	1.2	1.2	1.2
110°	1.2	1.2	1.2	1.2	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.2	1.2	0.0	0.0
115°	1.2	1.2	1.2	0.0	0.0
117.5°	1.2	1.2	1.2	0.0	0.0
120°	1.2	1.2	1.2	0.0	0.0
122.5°	1.2	1.2	1.2	0.0	0.0
125°	1.2	1.2	1.2	0.0	0.0
127.5°	1.2	1.2	1.2	0.0	0.0
130°	1.2	1.2	1.2	0.0	0.0
132.5°	1.2	2.4	1.2	1.2	0.0
135°	1.2	2.4	1.2	1.2	0.0
137.5°	1.2	2.4	1.2	1.2	0.0
140°	1.2	2.4	1.2	1.2	1.2
142.5°	2.4	2.4	2.4	1.2	1.2
145°	2.4	2.4	2.4	1.2	1.2
147.5°	2.4	2.4	2.4	1.2	1.2
150°	2.4	2.4	2.4	1.2	1.2
152.5°	2.4	3.5	2.4	1.2	1.2
155°	2.4	3.5	2.4	1.2	1.2
157.5°	2.4	3.5	2.4	1.2	1.2
160°	2.4	3.5	2.4	1.2	1.2
162.5°	3.5	3.5	2.4	2.4	1.2
165°	3.5	3.5	3.5	2.4	1.2
167.5°	3.5	3.5	3.5	2.4	1.2
170°	3.5	3.5	3.5	2.4	2.4
172.5°	3.5	3.5	3.5	2.4	2.4
175°	3.5	4.7	3.5	2.4	2.4
177.5°	3.5	4.7	3.5	2.4	2.4
180°	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)