

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: P685905

Luminaire Tested: **8CZL-14-UNV-LVRF-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685905
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-LVRF-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

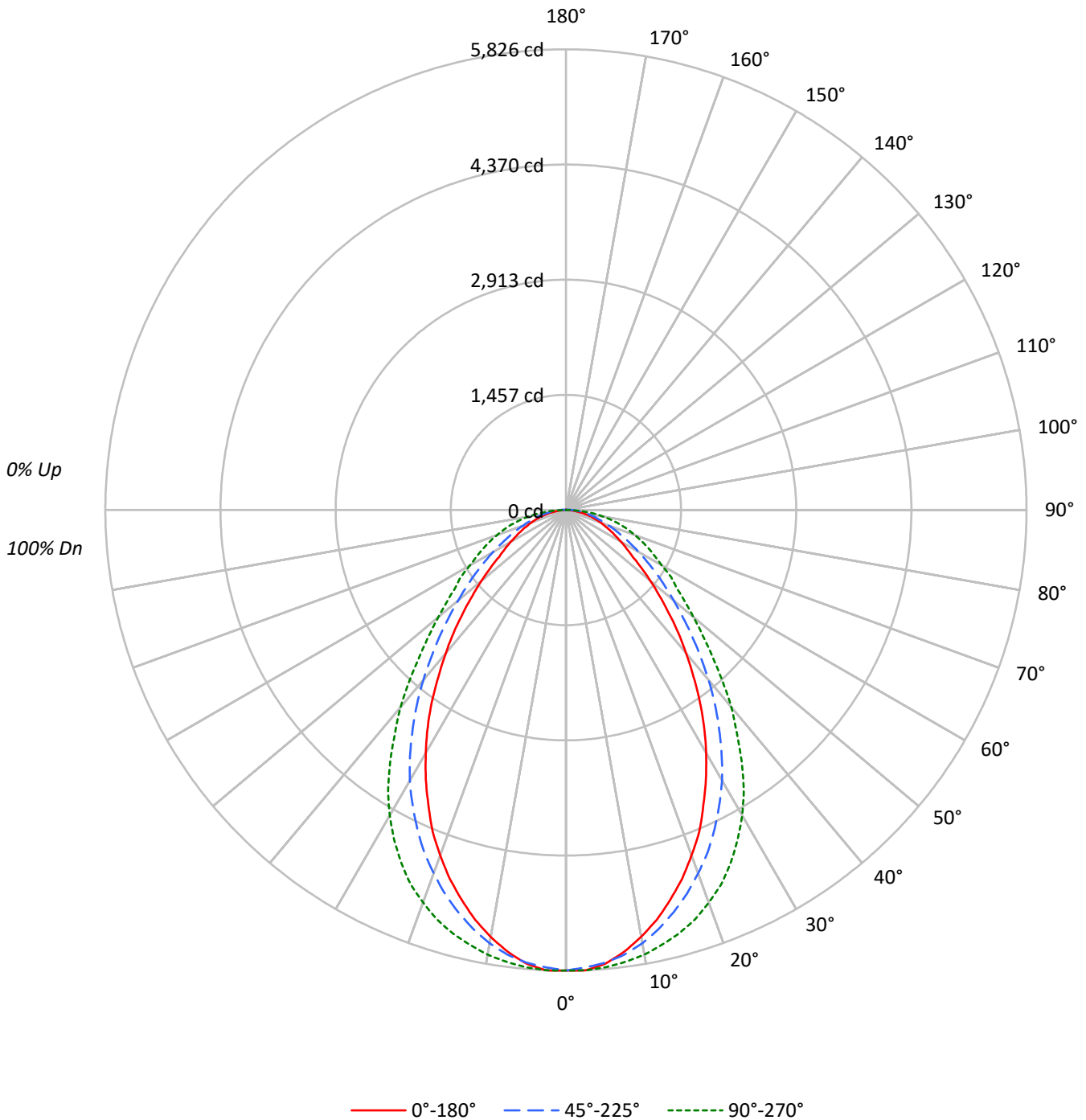
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10742.9 lumens
Efficiency: N/A
Efficacy: 120.7 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): 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				
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°	9403	9403	9403
5°	9334	9313	9406
10°	8985	9119	9360
15°	8526	8800	9262
20°	7984	8399	9077
25°	7332	7924	8777
30°	6608	7364	8311
35°	5820	6660	7633
40°	4982	5913	6864
45°	4197	5154	5978
50°	3505	4468	5285
55°	2900	3925	4792
60°	2614	3441	4519
65°	2376	3028	4419
70°	2213	2718	4386
75°	2052	2538	4475
80°	1860	2513	4483
85°	1597	2946	4435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.9	5.1
10°-20°	1489.2	13.9
20°-30°	2057.6	19.2
30°-40°	2116.7	19.7
40°-50°	1735.3	16.2
50°-60°	1245.2	11.6
60°-70°	837.5	7.8
70°-80°	488.8	4.6
80°-90°	188.3	1.8
90°-100°	32.6	0.3
100°-110°	2.7	0.0
110°-120°	0.5	0.0
120°-130°	0.4	0.0
130°-140°	0.7	0.0
140°-150°	0.8	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	4091.7	38.1
0°-40°	6208.4	57.8
0°-60°	9188.9	85.5
0°-90°	10703.5	99.6
90°-120°	35.9	0.3
90°-150°	37.8	0.4
90°-180°	39.0	0.4
0°-180°	10742.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5824	5824	5824	5824	5824	
5°	5759	5764	5746	5800	5804	540
15°	5101	5152	5265	5469	5541	1431
25°	4115	4212	4448	4757	4926	1889
35°	2953	3089	3379	3695	3873	1840
45°	1838	1981	2257	2479	2618	1426
55°	1030	1153	1394	1585	1702	948
65°	622	659	793	1018	1157	620
75°	329	341	407	565	717	349
85°	86	107	159	238	239	93
90°	1	36	81	124	26	5
95°	1	6	34	59	11	0
105°	0	1	2	3	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	2	2	1	1	1
165°	2	2	2	2	1	1
175°	2	3	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5823.7	5823.7	5823.7	5823.7	5823.7
2.5°	5826.2	5821.2	5788.6	5826.2	5824.6
5°	5759.3	5763.5	5745.9	5799.5	5803.6
7.5°	5634.6	5651.3	5670.6	5749.2	5763.5
10°	5480.6	5505.7	5561.8	5678.9	5709.1
12.5°	5307.3	5334.9	5426.2	5587.7	5629.6
15°	5100.6	5152.5	5264.6	5468.9	5540.8
17.5°	4887.1	4950.8	5089.7	5331.6	5428.7
20°	4646.9	4710.5	4888.0	5157.5	5283.0
22.5°	4405.9	4467.8	4684.6	4971.7	5128.2
25°	4115.4	4211.7	4447.7	4757.4	4926.5
27.5°	3837.6	3939.7	4202.5	4534.8	4703.0
30°	3544.6	3664.3	3949.7	4266.9	4457.8
32.5°	3254.2	3375.6	3666.8	3997.4	4186.6
35°	2952.9	3089.3	3378.9	3695.3	3872.7
37.5°	2647.4	2796.4	3094.3	3405.7	3548.8
40°	2363.6	2510.1	2805.6	3084.3	3256.7
42.5°	2101.7	2245.6	2519.3	2772.1	2926.9
45°	1838.0	1981.1	2257.3	2479.1	2618.1
47.5°	1602.0	1748.5	2005.4	2229.7	2346.1
50°	1395.3	1528.3	1778.6	1982.0	2104.2
52.5°	1206.1	1327.5	1575.2	1772.7	1890.7
55°	1030.3	1153.4	1394.4	1585.2	1702.4
57.5°	912.3	1000.2	1217.0	1428.7	1579.4
60°	809.4	863.8	1065.5	1316.6	1399.4
62.5°	704.7	754.1	919.8	1140.8	1269.7
65°	621.9	658.7	792.6	1017.8	1156.7
67.5°	539.9	567.5	682.1	898.9	1039.5
70°	468.7	486.3	575.8	781.7	929.1
72.5°	400.9	410.1	490.5	674.6	821.1
75°	328.9	340.7	406.8	565.0	717.3
77.5°	260.3	277.0	335.6	471.2	598.4
80°	200.0	213.4	270.3	387.5	482.1
82.5°	138.9	157.4	210.9	306.3	369.1
85°	86.2	107.1	159.0	237.7	239.4
87.5°	36.0	67.0	116.3	175.8	122.2
90°	0.8	36.0	81.2	123.9	25.9
92.5°	0.0	16.7	55.2	88.7	15.1
95°	0.8	5.9	34.3	59.4	10.9
97.5°	0.0	1.7	18.4	37.7	6.7
100°	0.0	0.8	7.5	20.9	4.2
102.5°	0.0	0.8	3.3	9.2	2.5
105°	0.0	0.8	1.7	3.3	1.7
107.5°	0.0	0.8	0.8	0.8	0.8
110°	0.8	0.8	0.8	0.8	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.8	0.8	0.0	0.0
115°	0.8	0.8	0.8	0.0	0.0
117.5°	0.8	0.8	0.8	0.0	0.0
120°	0.8	0.8	0.8	0.0	0.0
122.5°	0.8	0.8	0.8	0.0	0.0
125°	0.8	0.8	0.8	0.0	0.0
127.5°	0.8	0.8	0.8	0.0	0.0
130°	0.8	0.8	0.8	0.0	0.0
132.5°	0.8	1.7	0.8	0.8	0.0
135°	0.8	1.7	0.8	0.8	0.0
137.5°	0.8	1.7	0.8	0.8	0.0
140°	0.8	1.7	0.8	0.8	0.8
142.5°	1.7	1.7	1.7	0.8	0.8
145°	1.7	1.7	1.7	0.8	0.8
147.5°	1.7	1.7	1.7	0.8	0.8
150°	1.7	1.7	1.7	0.8	0.8
152.5°	1.7	2.5	1.7	0.8	0.8
155°	1.7	2.5	1.7	0.8	0.8
157.5°	1.7	2.5	1.7	0.8	0.8
160°	1.7	2.5	1.7	0.8	0.8
162.5°	2.5	2.5	1.7	1.7	0.8
165°	2.5	2.5	2.5	1.7	0.8
167.5°	2.5	2.5	2.5	1.7	0.8
170°	2.5	2.5	2.5	1.7	1.7
172.5°	2.5	2.5	2.5	1.7	1.7
175°	2.5	3.3	2.5	1.7	1.7
177.5°	2.5	3.3	2.5	1.7	1.7
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)