

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: P685914

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685914
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-LVRF-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @80 CRI and 4000K
Light Source: (784) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

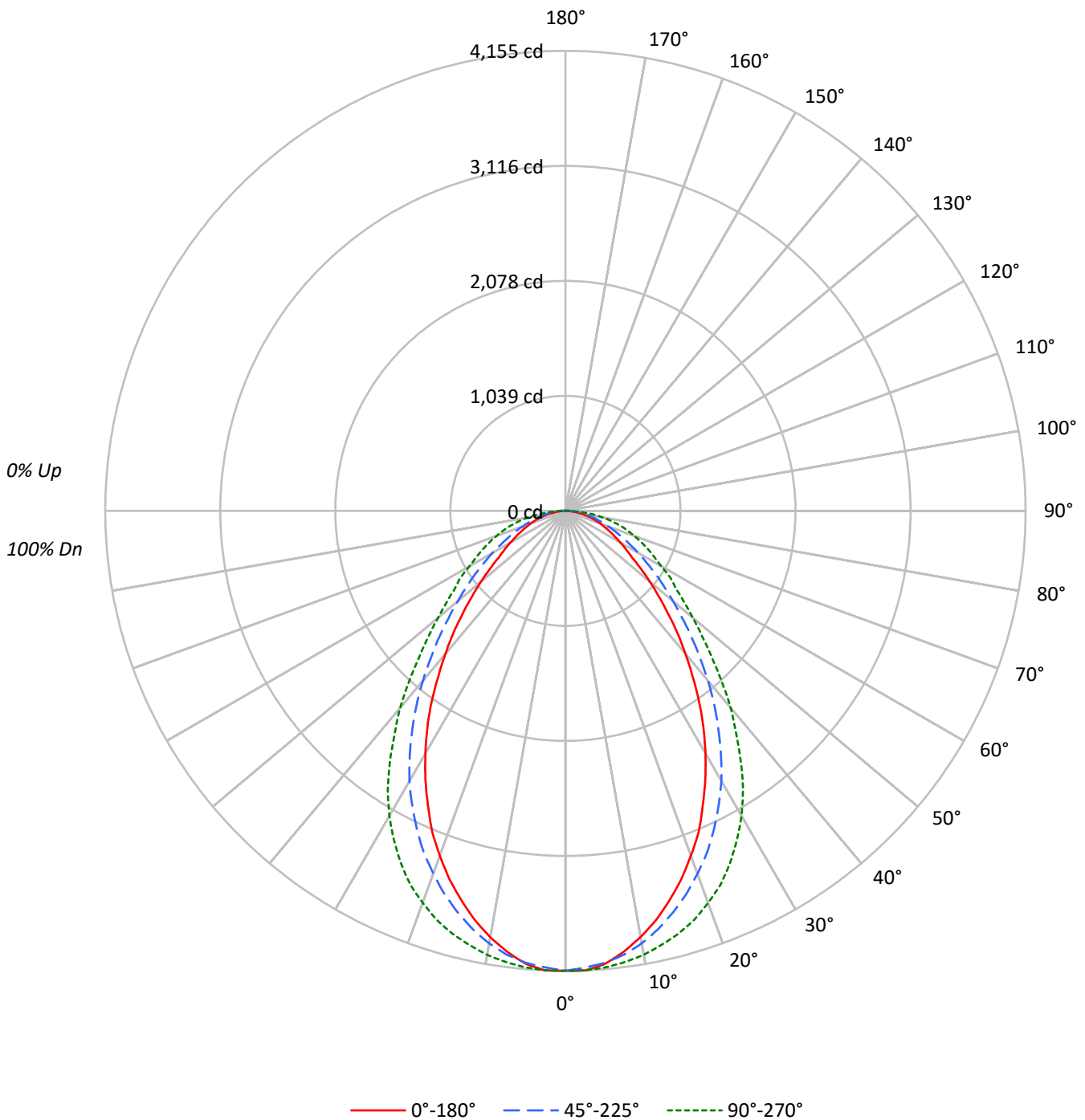
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7661.0 lumens
Efficiency: N/A
Efficacy: 121.6 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): 63
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	100	100	100	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	74	74	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	57	57	
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51	
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45	45	45	45	
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41	
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37	37	37	37	
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34	
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31	31	31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6705	6705	6705
5°	6656	6641	6708
10°	6408	6503	6675
15°	6080	6276	6605
20°	5694	5989	6473
25°	5228	5651	6259
30°	4713	5251	5927
35°	4150	4749	5443
40°	3553	4217	4895
45°	2993	3676	4263
50°	2499	3186	3769
55°	2068	2799	3417
60°	1864	2454	3223
65°	1694	2159	3151
70°	1578	1938	3128
75°	1464	1810	3191
80°	1327	1793	3197
85°	1139	2101	3162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	5.1
10°-20°	1062.0	13.9
20°-30°	1467.3	19.2
30°-40°	1509.4	19.7
40°-50°	1237.5	16.2
50°-60°	888.0	11.6
60°-70°	597.2	7.8
70°-80°	348.6	4.6
80°-90°	134.3	1.8
90°-100°	23.3	0.3
100°-110°	2.0	0.0
110°-120°	0.4	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	2917.9	38.1
0°-40°	4427.3	57.8
0°-60°	6552.8	85.5
0°-90°	7632.9	99.6
90°-120°	25.6	0.3
90°-150°	27.1	0.4
90°-180°	28.0	0.4
0°-180°	7661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4153	4153	4153	4153	4153	
5°	4107	4110	4098	4136	4139	385
15°	3637	3674	3754	3900	3951	1020
25°	2935	3003	3172	3393	3513	1347
35°	2106	2203	2410	2635	2762	1312
45°	1311	1413	1610	1768	1867	1017
55°	735	822	994	1130	1214	676
65°	444	470	565	726	825	442
75°	235	243	290	403	512	249
85°	62	76	113	170	171	67
90°	1	26	58	88	18	4
95°	1	4	24	42	8	0
105°	0	1	1	2	1	0
115°	1	1	1	0	0	0
125°	1	1	1	0	0	1
135°	1	1	1	1	0	0
145°	1	1	1	1	1	1
155°	1	2	1	1	1	1
165°	2	2	2	1	1	0
175°	2	2	2	1	1	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4153.0	4153.0	4153.0	4153.0	4153.0
2.5°	4154.8	4151.2	4127.9	4154.8	4153.6
5°	4107.0	4110.0	4097.5	4135.7	4138.7
7.5°	4018.1	4030.1	4043.8	4099.9	4110.0
10°	3908.3	3926.2	3966.2	4049.7	4071.2
12.5°	3784.7	3804.4	3869.5	3984.7	4014.5
15°	3637.3	3674.3	3754.3	3899.9	3951.3
17.5°	3485.1	3530.5	3629.6	3802.0	3871.3
20°	3313.8	3359.2	3485.7	3677.9	3767.4
22.5°	3141.9	3186.1	3340.7	3545.4	3657.0
25°	2934.8	3003.4	3171.8	3392.6	3513.2
27.5°	2736.6	2809.5	2996.9	3233.8	3353.8
30°	2527.7	2613.1	2816.6	3042.8	3178.9
32.5°	2320.6	2407.2	2614.9	2850.6	2985.5
35°	2105.7	2203.0	2409.6	2635.2	2761.7
37.5°	1887.9	1994.1	2206.6	2428.7	2530.7
40°	1685.6	1790.0	2000.7	2199.5	2322.4
42.5°	1498.7	1601.4	1796.6	1976.8	2087.2
45°	1310.7	1412.8	1609.8	1767.9	1867.0
47.5°	1142.4	1246.9	1430.1	1590.1	1673.0
50°	995.0	1089.9	1268.3	1413.4	1500.5
52.5°	860.1	946.6	1123.3	1264.2	1348.3
55°	734.7	822.5	994.4	1130.5	1214.0
57.5°	650.6	713.3	867.8	1018.9	1126.3
60°	577.2	616.0	759.8	938.9	998.0
62.5°	502.6	537.8	656.0	813.5	905.4
65°	443.5	469.7	565.2	725.8	824.9
67.5°	385.0	404.7	486.4	641.0	741.3
70°	334.2	346.8	410.6	557.5	662.5
72.5°	285.9	292.5	349.8	481.1	585.5
75°	234.6	242.9	290.1	402.9	511.5
77.5°	185.6	197.6	239.3	336.0	426.8
80°	142.7	152.2	192.8	276.3	343.8
82.5°	99.1	112.2	150.4	218.5	263.2
85°	61.5	76.4	113.4	169.5	170.7
87.5°	25.7	47.7	83.0	125.3	87.1
90°	0.6	25.7	57.9	88.3	18.5
92.5°	0.0	11.9	39.4	63.3	10.7
95°	0.6	4.2	24.5	42.4	7.8
97.5°	0.0	1.2	13.1	26.9	4.8
100°	0.0	0.6	5.4	14.9	3.0
102.5°	0.0	0.6	2.4	6.6	1.8
105°	0.0	0.6	1.2	2.4	1.2
107.5°	0.0	0.6	0.6	0.6	0.6
110°	0.6	0.6	0.6	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.6	0.6	0.0	0.0
115°	0.6	0.6	0.6	0.0	0.0
117.5°	0.6	0.6	0.6	0.0	0.0
120°	0.6	0.6	0.6	0.0	0.0
122.5°	0.6	0.6	0.6	0.0	0.0
125°	0.6	0.6	0.6	0.0	0.0
127.5°	0.6	0.6	0.6	0.0	0.0
130°	0.6	0.6	0.6	0.0	0.0
132.5°	0.6	1.2	0.6	0.6	0.0
135°	0.6	1.2	0.6	0.6	0.0
137.5°	0.6	1.2	0.6	0.6	0.0
140°	0.6	1.2	0.6	0.6	0.6
142.5°	1.2	1.2	1.2	0.6	0.6
145°	1.2	1.2	1.2	0.6	0.6
147.5°	1.2	1.2	1.2	0.6	0.6
150°	1.2	1.2	1.2	0.6	0.6
152.5°	1.2	1.8	1.2	0.6	0.6
155°	1.2	1.8	1.2	0.6	0.6
157.5°	1.2	1.8	1.2	0.6	0.6
160°	1.2	1.8	1.2	0.6	0.6
162.5°	1.8	1.8	1.2	1.2	0.6
165°	1.8	1.8	1.8	1.2	0.6
167.5°	1.8	1.8	1.8	1.2	0.6
170°	1.8	1.8	1.8	1.2	1.2
172.5°	1.8	1.8	1.8	1.2	1.2
175°	1.8	2.4	1.8	1.2	1.2
177.5°	1.8	2.4	1.8	1.2	1.2
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)