

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: P685555

Luminaire Tested: **8CZL-14-UNV-FL-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685555
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-FL-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 4000K
Light Source: (784) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

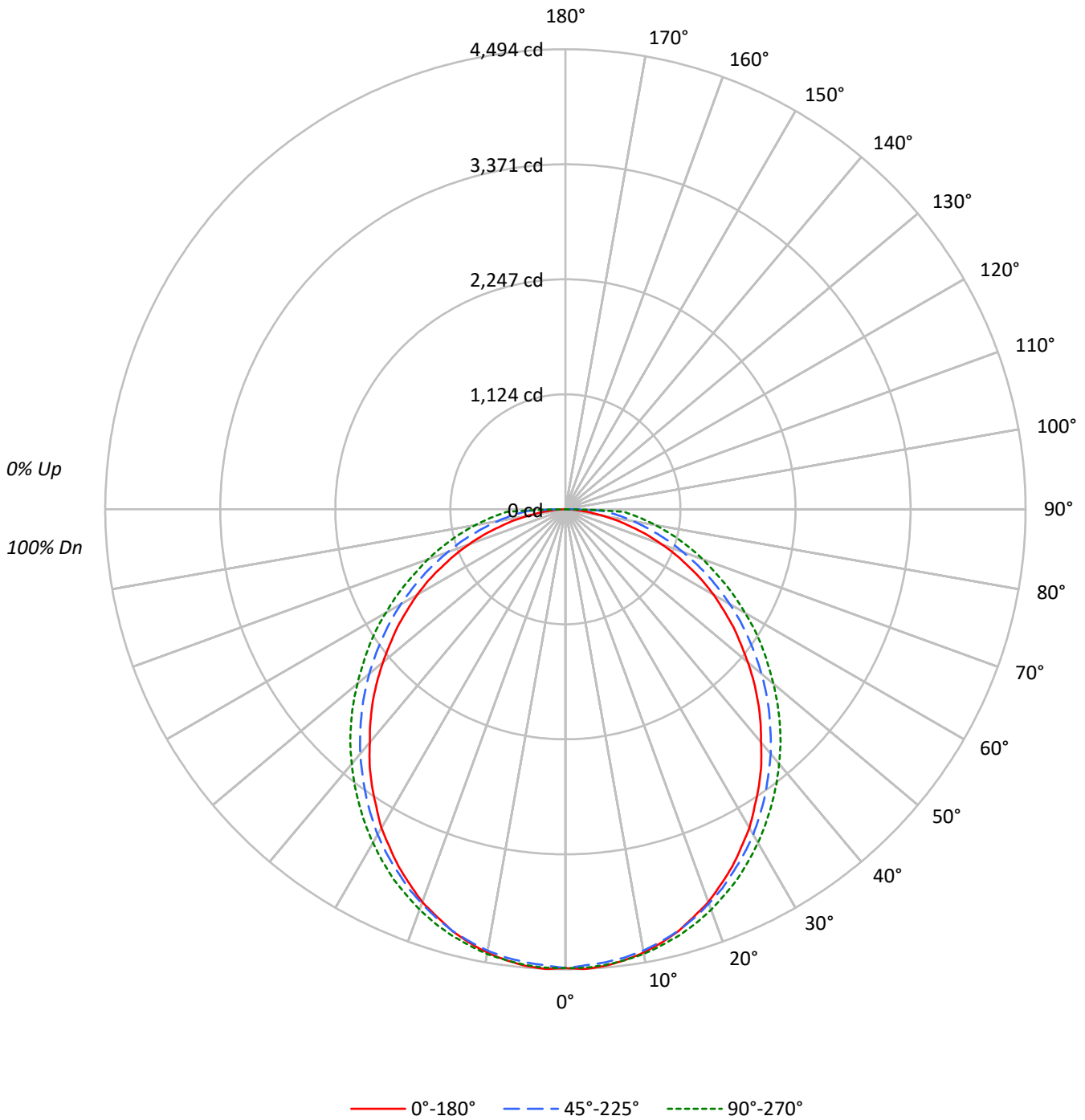
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12623.4 lumens
Efficiency: N/A
Efficacy: 141.8 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): 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				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°	7236	7236	7236
5°	7250	7152	7180
10°	7196	7081	7108
15°	7109	6979	7011
20°	6990	6848	6902
25°	6831	6696	6777
30°	6660	6544	6630
35°	6449	6357	6473
40°	6212	6169	6313
45°	6012	5959	6146
50°	5770	5743	5951
55°	5548	5508	5776
60°	5304	5273	5575
65°	4979	5020	5400
70°	4601	4741	5293
75°	4041	4506	5232
80°	3320	4353	5302
85°	2228	4453	5743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	3.4
10°-20°	1206.2	9.6
20°-30°	1801.6	14.3
30°-40°	2130.7	16.9
40°-50°	2171.0	17.2
50°-60°	1945.4	15.4
60°-70°	1515.2	12.0
70°-80°	981.0	7.8
80°-90°	448.3	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°	3431.7	27.2
0°-40°	5562.4	44.1
0°-60°	9678.8	76.7
0°-90°	12623.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12623.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4482	4482	4482	4482	4482	
5°	4477	4470	4443	4470	4469	425
15°	4265	4265	4262	4303	4307	1201
25°	3853	3866	3895	3964	3981	1773
35°	3296	3327	3401	3493	3514	2059
45°	2660	2708	2814	2921	2961	2050
55°	2000	2056	2175	2300	2345	1785
65°	1332	1390	1534	1663	1716	1323
75°	673	759	933	1088	1152	722
85°	135	260	455	619	664	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4481.5	4481.5	4481.5	4481.5	4481.5
2.5°	4494.2	4486.6	4459.3	4483.2	4482.3
5°	4477.2	4469.5	4443.1	4469.5	4468.7
7.5°	4442.3	4439.7	4415.9	4444.8	4442.3
10°	4397.1	4393.7	4378.4	4407.4	4411.6
12.5°	4337.5	4335.8	4323.9	4358.0	4360.5
15°	4265.1	4265.1	4262.5	4302.6	4306.8
17.5°	4172.3	4184.2	4186.7	4230.2	4239.6
20°	4083.7	4087.1	4099.0	4151.8	4162.9
22.5°	3967.0	3981.4	4005.3	4063.2	4072.6
25°	3852.8	3866.4	3895.4	3964.4	3981.4
27.5°	3719.9	3746.3	3786.4	3855.4	3872.4
30°	3593.9	3616.0	3668.0	3744.6	3761.7
32.5°	3439.7	3477.2	3536.8	3617.7	3640.7
35°	3295.7	3327.2	3401.4	3493.3	3513.8
37.5°	3141.5	3179.0	3257.4	3355.4	3383.5
40°	2972.9	3027.4	3118.5	3216.5	3246.3
42.5°	2818.7	2869.0	2965.2	3076.0	3110.0
45°	2660.3	2708.0	2813.6	2920.9	2961.0
47.5°	2495.0	2544.4	2659.4	2773.6	2809.3
50°	2325.5	2384.3	2499.3	2619.4	2651.7
52.5°	2156.8	2215.6	2337.4	2457.5	2494.2
55°	2000.1	2056.3	2174.7	2299.9	2345.1
57.5°	1829.7	1889.4	2019.7	2140.6	2189.2
60°	1672.1	1715.6	1853.6	1978.8	2025.6
62.5°	1509.4	1556.3	1690.9	1819.5	1874.9
65°	1332.3	1390.2	1534.1	1662.8	1716.4
67.5°	1170.4	1225.8	1374.0	1518.8	1562.3
70°	1002.6	1066.5	1219.8	1368.0	1429.4
72.5°	842.5	908.9	1077.6	1224.9	1287.1
75°	672.9	759.0	932.8	1087.8	1151.7
77.5°	533.2	618.4	796.5	958.3	1019.6
80°	378.2	483.0	675.5	839.1	893.6
82.5°	252.1	358.6	560.5	719.8	778.6
85°	134.6	259.8	454.9	619.3	664.4
87.5°	58.8	181.4	368.8	515.4	569.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)