

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: P685865

Luminaire Tested: **8CZL-14-UNV-W-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685865
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-W-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

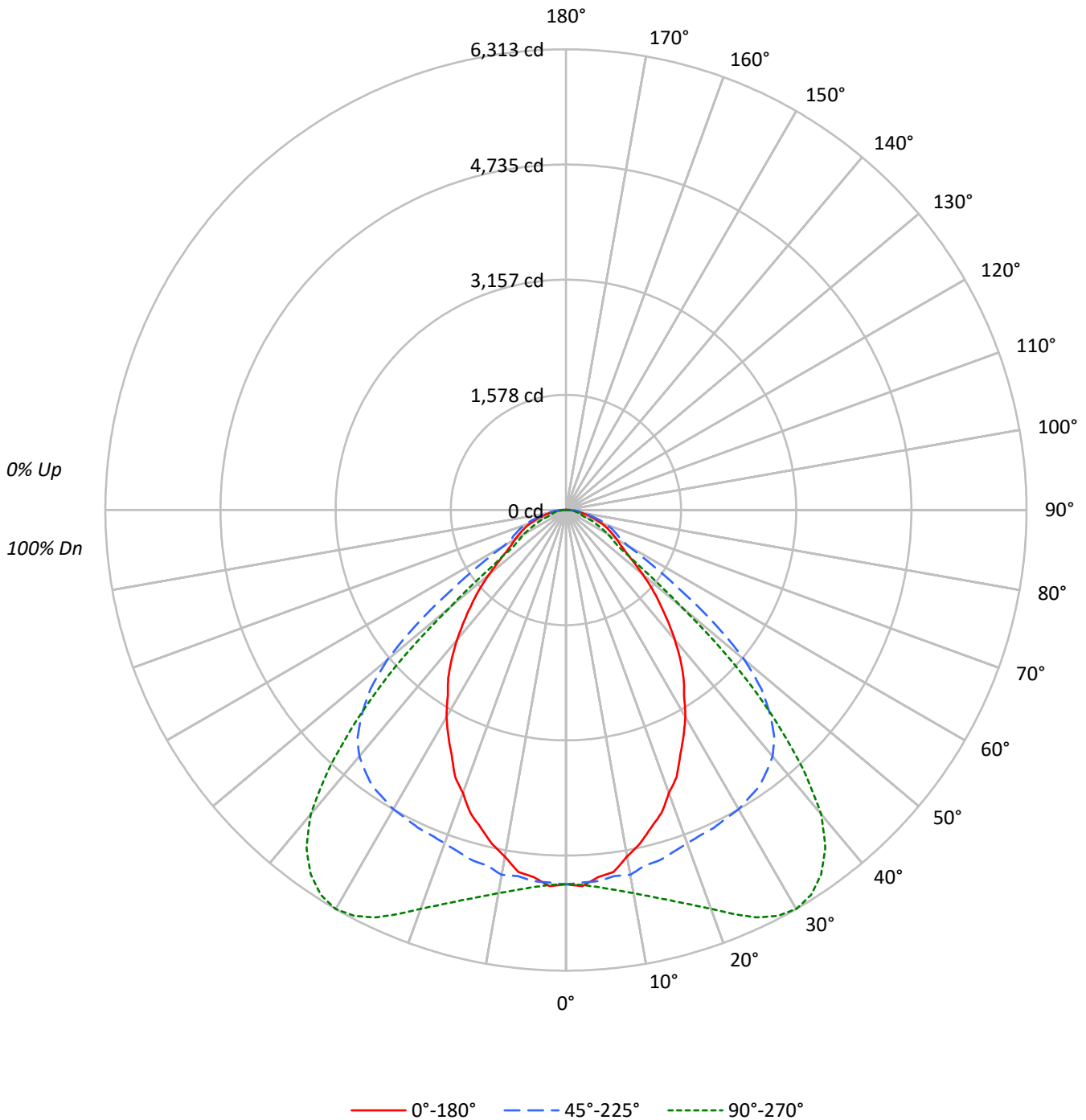
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12202.2 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.64 / 1.46
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	89	89	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	77	77	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	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	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8281	8281	8281
5°	8186	8271	8407
10°	7904	8322	8741
15°	7532	8305	9255
20°	7090	8351	9990
25°	6601	8556	10972
30°	6102	8826	11769
35°	5544	9112	12016
40°	4888	9284	11464
45°	4167	9031	9191
50°	3453	8030	5215
55°	2813	5426	2495
60°	2597	3155	2155
65°	2504	2902	1752
70°	2363	2847	1252
75°	2199	2599	1217
80°	2005	2553	1336
85°	1538	3059	1475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.6	4.0
10°-20°	1415.6	11.6
20°-30°	2246.5	18.4
30°-40°	2805.8	23.0
40°-50°	2577.0	21.1
50°-60°	1375.3	11.3
60°-70°	707.8	5.8
70°-80°	389.2	3.2
80°-90°	160.6	1.3
90°-100°	31.0	0.3
100°-110°	1.7	0.0
110°-120°	0.4	0.0
120°-130°	0.6	0.0
130°-140°	1.0	0.0
140°-150°	0.8	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	4149.7	34.0
0°-40°	6955.5	57.0
0°-60°	10907.8	89.4
0°-90°	12165.4	99.7
90°-120°	33.1	0.3
90°-150°	35.5	0.3
90°-180°	37.0	0.3
0°-180°	12202.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5129	5129	5129	5129	5129	
5°	5051	5064	5103	5182	5187	477
15°	4506	4653	4969	5373	5537	1267
25°	3705	4053	4803	5682	6159	1707
35°	2813	3332	4623	5632	6096	1746
45°	1825	2631	3955	4099	4025	1412
55°	999	1791	1927	1080	886	923
65°	655	859	760	619	458	647
75°	352	391	417	370	195	374
85°	83	109	165	217	80	95
90°	0	31	81	132	17	3
95°	0	3	31	61	8	0
105°	0	1	1	1	0	0
115°	0	1	1	0	0	0
125°	0	1	1	0	0	0
135°	1	2	2	1	1	1
145°	1	2	2	1	1	1
155°	2	2	2	1	1	1
165°	2	3	2	1	1	0
175°	3	3	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°	5128.7	5128.7	5128.7	5128.7	5128.7
2.5°	5158.7	5147.5	5110.7	5144.1	5141.5
5°	5050.9	5063.7	5103.0	5181.7	5186.9
7.5°	5002.9	5038.0	5060.3	5230.5	5252.8
10°	4820.7	4875.5	5075.7	5252.8	5331.5
12.5°	4683.8	4794.2	4988.4	5288.7	5425.6
15°	4505.9	4653.1	4968.7	5373.4	5536.8
17.5°	4354.5	4505.1	4908.8	5437.5	5666.0
20°	4126.1	4399.0	4860.1	5504.3	5814.0
22.5°	3962.7	4239.0	4822.4	5563.3	5989.3
25°	3705.2	4053.3	4802.8	5682.2	6158.7
27.5°	3489.6	3896.8	4759.1	5758.4	6270.8
30°	3273.1	3705.2	4734.3	5772.0	6312.7
32.5°	3012.2	3549.5	4671.9	5740.4	6252.8
35°	2812.9	3332.2	4623.1	5631.7	6096.3
37.5°	2569.9	3161.1	4516.2	5435.0	5839.6
40°	2319.3	3002.8	4405.0	5127.9	5439.3
42.5°	2066.0	2824.9	4227.0	4718.1	4813.0
45°	1824.8	2630.7	3955.0	4098.7	4025.1
47.5°	1608.3	2421.9	3633.3	3321.9	3149.1
50°	1374.8	2209.8	3197.0	2528.9	2076.3
52.5°	1164.3	2032.7	2596.4	1712.7	1291.8
55°	999.2	1791.4	1927.4	1079.6	886.3
57.5°	882.0	1606.6	1391.0	853.8	758.8
60°	804.2	1375.6	977.0	783.6	667.3
62.5°	727.2	1088.2	835.8	714.3	561.2
65°	655.3	858.9	759.7	619.4	458.5
67.5°	580.9	697.2	686.1	562.1	382.4
70°	500.5	573.2	603.1	470.5	265.2
72.5°	428.6	480.8	513.3	402.1	225.0
75°	352.5	391.0	416.6	370.4	195.1
77.5°	279.7	314.8	339.6	335.4	171.1
80°	215.6	238.7	274.6	300.3	143.7
82.5°	147.1	164.3	216.4	259.2	112.1
85°	83.0	108.6	165.1	217.3	79.6
87.5°	24.0	64.2	119.8	174.5	46.2
90°	0.0	30.8	81.3	131.7	17.1
92.5°	0.0	12.0	53.0	92.4	12.0
95°	0.0	3.4	30.8	60.7	7.7
97.5°	0.0	0.9	14.5	35.9	3.4
100°	0.0	0.9	5.1	17.1	0.9
102.5°	0.0	0.9	1.7	6.0	0.0
105°	0.0	0.9	0.9	0.9	0.0
107.5°	0.0	0.9	0.9	0.0	0.0
110°	0.0	0.9	0.9	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.9	0.9	0.0	0.0
115°	0.0	0.9	0.9	0.0	0.0
117.5°	0.0	0.9	0.9	0.0	0.0
120°	0.0	0.9	0.9	0.0	0.0
122.5°	0.0	0.9	0.9	0.0	0.0
125°	0.0	0.9	0.9	0.0	0.0
127.5°	0.9	0.9	0.9	0.9	0.0
130°	0.9	1.7	1.7	0.9	0.0
132.5°	0.9	1.7	1.7	0.9	0.0
135°	0.9	1.7	1.7	0.9	0.9
137.5°	0.9	1.7	1.7	0.9	0.9
140°	0.9	1.7	1.7	0.9	0.9
142.5°	0.9	1.7	1.7	0.9	0.9
145°	0.9	1.7	1.7	0.9	0.9
147.5°	0.9	1.7	1.7	0.9	0.9
150°	0.9	1.7	1.7	0.9	0.9
152.5°	1.7	1.7	1.7	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.9
157.5°	1.7	1.7	1.7	0.9	0.9
160°	1.7	1.7	1.7	0.9	0.9
162.5°	1.7	2.6	1.7	0.9	0.9
165°	1.7	2.6	1.7	0.9	0.9
167.5°	1.7	2.6	1.7	0.9	0.9
170°	1.7	2.6	1.7	0.9	0.9
172.5°	1.7	2.6	1.7	0.9	0.9
175°	2.6	2.6	1.7	0.9	0.9
177.5°	2.6	2.6	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)