

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: P685954

Luminaire Tested: **8CZL-10-UNV-LVRF-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685954
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-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

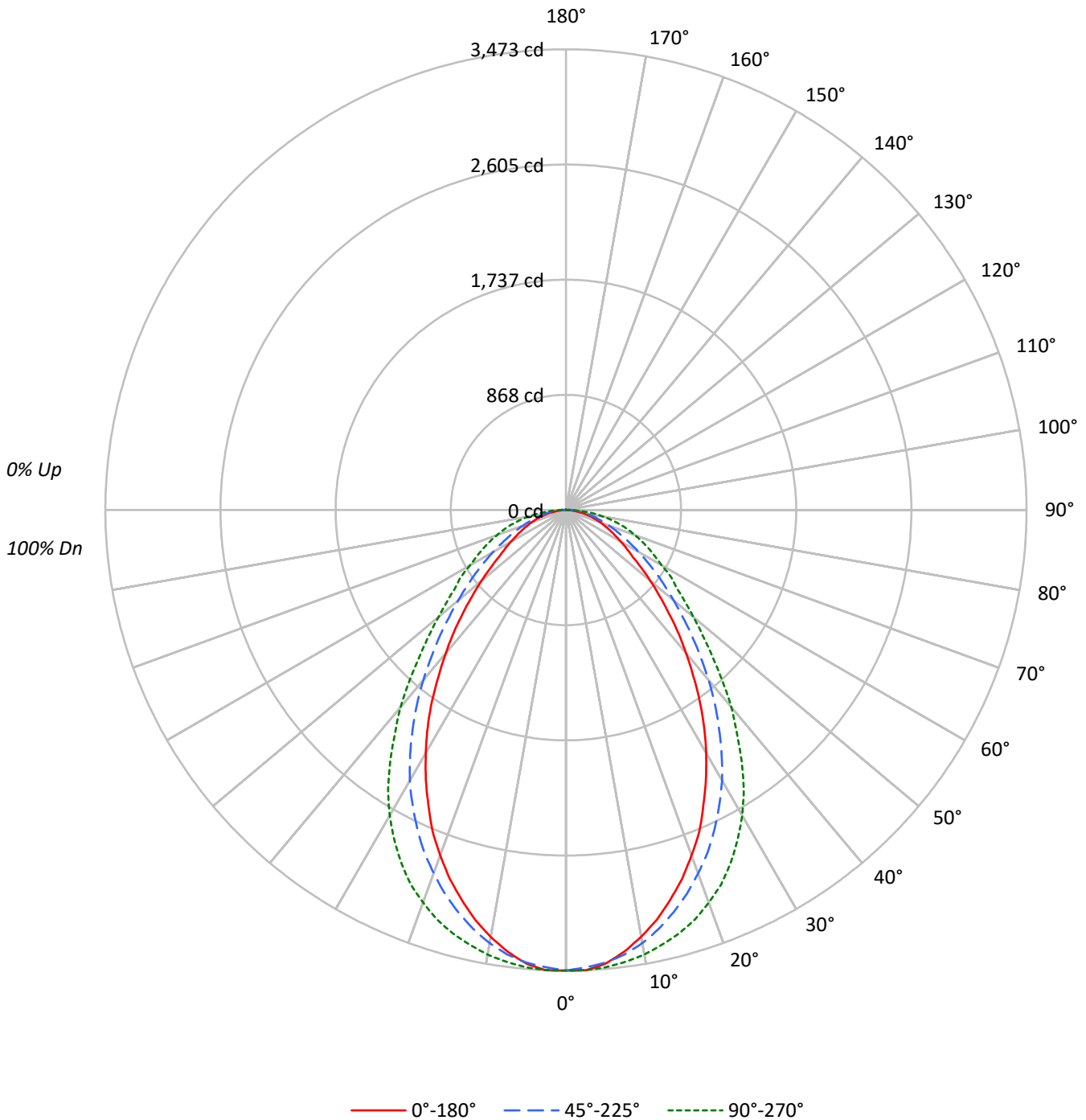
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6403.9 lumens
Efficiency: N/A
Efficacy: 101.6 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	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°	5605	5605	5605
5°	5564	5551	5607
10°	5356	5435	5579
15°	5082	5246	5521
20°	4759	5006	5411
25°	4370	4723	5232
30°	3939	4389	4954
35°	3469	3970	4550
40°	2970	3525	4092
45°	2502	3073	3563
50°	2089	2663	3151
55°	1729	2340	2857
60°	1558	2051	2694
65°	1416	1805	2634
70°	1319	1621	2614
75°	1223	1513	2668
80°	1108	1499	2672
85°	952	1756	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	5.1
10°-20°	887.7	13.9
20°-30°	1226.5	19.2
30°-40°	1261.7	19.7
40°-50°	1034.4	16.2
50°-60°	742.3	11.6
60°-70°	499.2	7.8
70°-80°	291.4	4.6
80°-90°	112.3	1.8
90°-100°	19.5	0.3
100°-110°	1.7	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2439.1	38.1
0°-40°	3700.8	57.8
0°-60°	5477.4	85.5
0°-90°	6380.4	99.6
90°-120°	21.4	0.3
90°-150°	22.6	0.4
90°-180°	24.0	0.4
0°-180°	6403.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3472	3472	3472	3472	3472	
5°	3433	3436	3425	3457	3460	322
15°	3040	3071	3138	3260	3303	853
25°	2453	2511	2651	2836	2937	1126
35°	1760	1842	2014	2203	2308	1097
45°	1096	1181	1346	1478	1561	850
55°	614	688	831	945	1015	565
65°	371	393	472	607	690	369
75°	196	203	242	337	428	208
85°	51	64	95	142	143	56
90°	0	22	48	74	16	3
95°	0	4	20	35	6	0
105°	0	0	1	2	1	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	1	0	0	0	0
145°	1	1	1	0	0	1
155°	1	2	1	0	0	0
165°	2	2	2	1	0	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°	3471.5	3471.5	3471.5	3471.5	3471.5
2.5°	3473.0	3470.0	3450.5	3473.0	3472.0
5°	3433.1	3435.6	3425.1	3457.0	3459.5
7.5°	3358.7	3368.7	3380.2	3427.1	3435.6
10°	3266.9	3281.9	3315.3	3385.2	3403.1
12.5°	3163.7	3180.1	3234.5	3330.8	3355.7
15°	3040.4	3071.4	3138.2	3260.0	3302.9
17.5°	2913.2	2951.1	3033.9	3178.1	3236.0
20°	2770.0	2807.9	2913.7	3074.4	3149.2
22.5°	2626.3	2663.2	2792.5	2963.6	3056.9
25°	2453.2	2510.6	2651.3	2835.9	2936.7
27.5°	2287.6	2348.4	2505.1	2703.2	2803.4
30°	2112.9	2184.3	2354.4	2543.5	2657.3
32.5°	1939.8	2012.2	2185.8	2382.9	2495.6
35°	1760.2	1841.5	2014.1	2202.7	2308.5
37.5°	1578.1	1666.9	1844.5	2030.1	2115.4
40°	1409.0	1496.3	1672.4	1838.5	1941.3
42.5°	1252.8	1338.6	1501.8	1652.4	1744.7
45°	1095.6	1180.9	1345.6	1477.8	1560.6
47.5°	954.9	1042.2	1195.4	1329.1	1398.5
50°	831.7	911.0	1060.2	1181.4	1254.3
52.5°	718.9	791.3	939.0	1056.7	1127.1
55°	614.2	687.5	831.2	945.0	1014.8
57.5°	543.8	596.2	725.4	851.7	941.5
60°	482.5	514.9	635.1	784.8	834.2
62.5°	420.1	449.5	548.3	680.0	756.9
65°	370.7	392.7	472.5	606.7	689.5
67.5°	321.8	338.3	406.6	535.8	619.7
70°	279.4	289.9	343.3	466.0	553.8
72.5°	239.0	244.5	292.4	402.1	489.4
75°	196.1	203.1	242.5	336.8	427.6
77.5°	155.2	165.1	200.1	280.9	356.7
80°	119.2	127.2	161.2	231.0	287.4
82.5°	82.8	93.8	125.7	182.6	220.0
85°	51.4	63.9	94.8	141.7	142.7
87.5°	21.5	39.9	69.4	104.8	72.8
90°	0.5	21.5	48.4	73.8	15.5
92.5°	0.0	10.0	32.9	52.9	9.0
95°	0.5	3.5	20.5	35.4	6.5
97.5°	0.0	1.0	11.0	22.5	4.0
100°	0.0	0.5	4.5	12.5	2.5
102.5°	0.0	0.5	2.0	5.5	1.5
105°	0.0	0.5	1.0	2.0	1.0
107.5°	0.0	0.5	0.5	0.5	0.5
110°	0.5	0.5	0.5	0.5	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.5	0.5	0.0	0.0
115°	0.5	0.5	0.5	0.0	0.0
117.5°	0.5	0.5	0.5	0.0	0.0
120°	0.5	0.5	0.5	0.0	0.0
122.5°	0.5	0.5	0.5	0.0	0.0
125°	0.5	0.5	0.5	0.0	0.0
127.5°	0.5	0.5	0.5	0.0	0.0
130°	0.5	0.5	0.5	0.0	0.0
132.5°	0.5	1.0	0.5	0.5	0.0
135°	0.5	1.0	0.5	0.5	0.0
137.5°	0.5	1.0	0.5	0.5	0.0
140°	0.5	1.0	0.5	0.5	0.5
142.5°	1.0	1.0	1.0	0.5	0.5
145°	1.0	1.0	1.0	0.5	0.5
147.5°	1.0	1.0	1.0	0.5	0.5
150°	1.0	1.0	1.0	0.5	0.5
152.5°	1.0	1.5	1.0	0.5	0.5
155°	1.0	1.5	1.0	0.5	0.5
157.5°	1.0	1.5	1.0	0.5	0.5
160°	1.0	1.5	1.0	0.5	0.5
162.5°	1.5	1.5	1.0	1.0	0.5
165°	1.5	1.5	1.5	1.0	0.5
167.5°	1.5	1.5	1.5	1.0	0.5
170°	1.5	1.5	1.5	1.0	1.0
172.5°	1.5	1.5	1.5	1.0	1.0
175°	1.5	2.0	1.5	1.0	1.0
177.5°	1.5	2.0	1.5	1.0	1.0
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)