

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: P685958

Luminaire Tested: **8CZL-32-UNV-LVRF-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685958
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-LVRF-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

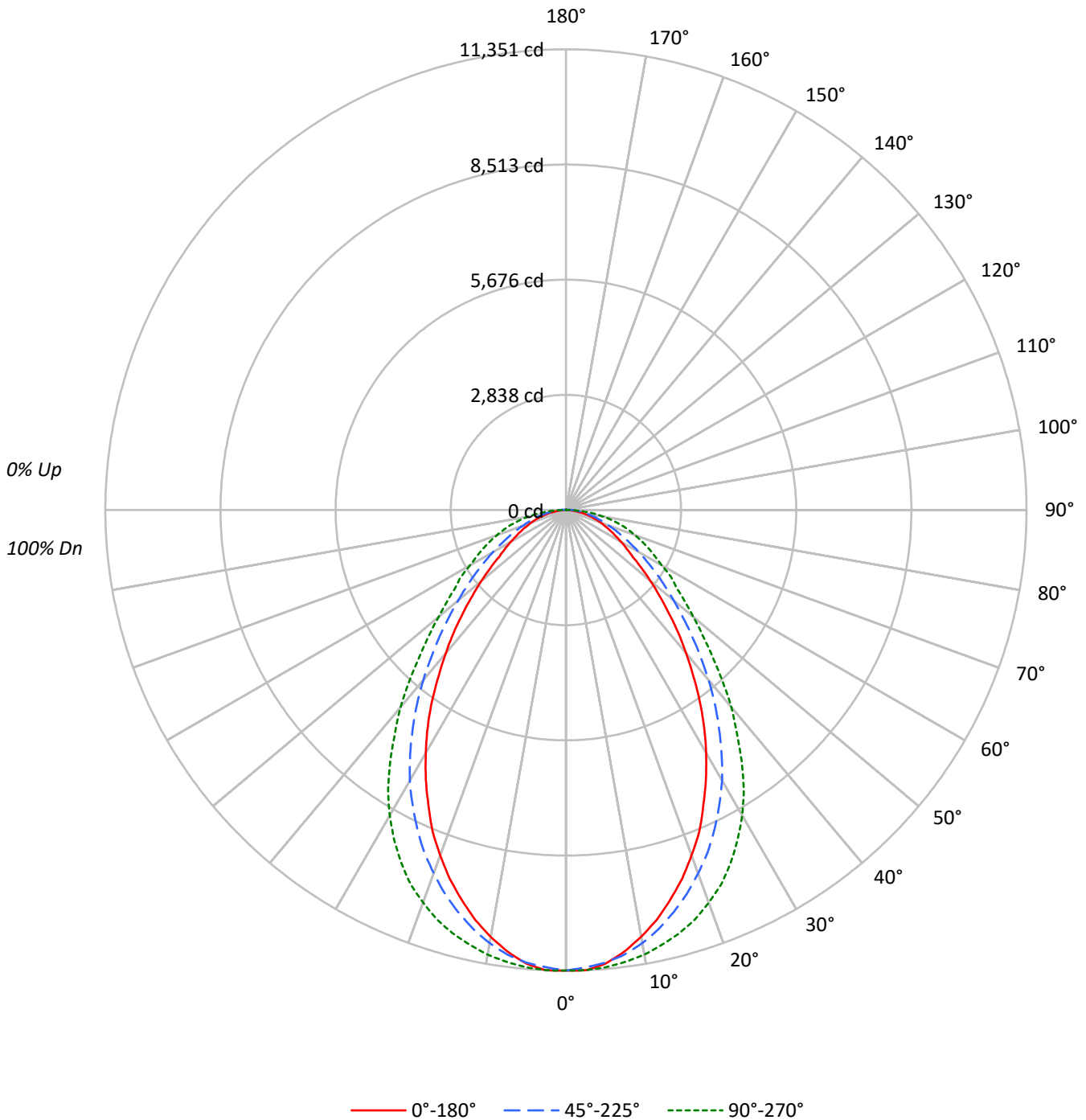
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20930.4 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): 206
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°	18320	18320	18320
5°	18186	18144	18326
10°	17506	17765	18236
15°	16611	17145	18045
20°	15556	16363	17685
25°	14284	15438	17099
30°	12875	14347	16192
35°	11340	12976	14872
40°	9706	11521	13373
45°	8177	10042	11647
50°	6828	8704	10298
55°	5651	7647	9337
60°	5092	6703	8804
65°	4629	5900	8610
70°	4311	5296	8545
75°	3998	4944	8718
80°	3623	4897	8734
85°	3112	5739	8640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.7	5.1
10°-20°	2901.4	13.9
20°-30°	4008.9	19.2
30°-40°	4123.9	19.7
40°-50°	3380.8	16.2
50°-60°	2426.0	11.6
60°-70°	1631.7	7.8
70°-80°	952.4	4.6
80°-90°	367.0	1.8
90°-100°	63.6	0.3
100°-110°	5.4	0.0
110°-120°	1.0	0.0
120°-130°	0.9	0.0
130°-140°	1.3	0.0
140°-150°	1.6	0.0
150°-160°	1.4	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	7971.9	38.1
0°-40°	12095.8	57.8
0°-60°	17902.7	85.5
0°-90°	20853.7	99.6
90°-120°	70.0	0.3
90°-150°	73.8	0.4
90°-180°	77.0	0.4
0°-180°	20930.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11346	11346	11346	11346	11346	
5°	11221	11229	11195	11299	11307	1053
15°	9937	10038	10257	10655	10795	2787
25°	8018	8206	8666	9269	9598	3680
35°	5753	6019	6583	7200	7545	3585
45°	3581	3860	4398	4830	5101	2779
55°	2007	2247	2717	3088	3317	1848
65°	1212	1283	1544	1983	2254	1207
75°	641	664	792	1101	1398	680
85°	168	209	310	463	466	182
90°	2	70	158	241	51	10
95°	2	11	67	116	21	0
105°	0	2	3	6	3	0
115°	2	2	2	0	0	1
125°	2	2	2	0	0	1
135°	2	3	2	2	0	1
145°	3	3	3	2	2	2
155°	3	5	3	2	2	2
165°	5	5	5	3	2	1
175°	5	6	5	3	3	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11346.4	11346.4	11346.4	11346.4	11346.4
2.5°	11351.2	11341.5	11277.9	11351.2	11348.0
5°	11220.8	11228.9	11194.7	11299.1	11307.2
7.5°	10977.8	11010.4	11047.9	11201.2	11228.9
10°	10677.8	10726.7	10835.9	11064.2	11122.9
12.5°	10340.2	10394.0	10571.8	10886.5	10968.0
15°	9937.4	10038.5	10257.1	10654.9	10795.2
17.5°	9521.6	9645.5	9916.2	10387.5	10576.7
20°	9053.6	9177.5	9523.2	10048.3	10292.9
22.5°	8584.0	8704.6	9127.0	9686.3	9991.2
25°	8018.1	8205.6	8665.5	9268.9	9598.3
27.5°	7476.7	7675.7	8187.7	8835.1	9162.9
30°	6906.0	7139.2	7695.2	8313.3	8685.1
32.5°	6340.1	6576.6	7144.1	7788.2	8156.7
35°	5753.1	6018.9	6583.1	7199.5	7545.2
37.5°	5157.9	5448.1	6028.7	6635.3	6914.1
40°	4605.1	4890.4	5466.1	6009.1	6345.0
42.5°	4094.7	4375.1	4908.4	5400.9	5702.5
45°	3581.0	3859.8	4398.0	4830.1	5100.8
47.5°	3121.1	3406.5	3907.1	4344.2	4570.8
50°	2718.4	2977.6	3465.2	3861.5	4099.6
52.5°	2349.8	2586.3	3069.0	3453.8	3683.7
55°	2007.4	2247.1	2716.7	3088.5	3316.8
57.5°	1777.5	1948.7	2371.0	2783.6	3077.1
60°	1576.9	1682.9	2075.9	2565.1	2726.5
62.5°	1373.0	1469.3	1792.1	2222.6	2473.8
65°	1211.6	1283.4	1544.3	1982.9	2253.6
67.5°	1051.8	1105.6	1329.0	1751.4	2025.3
70°	913.2	947.4	1121.9	1523.1	1810.1
72.5°	781.1	799.0	955.6	1314.3	1599.7
75°	640.9	663.7	792.5	1100.7	1397.5
77.5°	507.1	539.8	653.9	918.1	1165.9
80°	389.7	415.8	526.7	755.0	939.3
82.5°	270.7	306.6	410.9	596.8	719.1
85°	168.0	208.7	309.8	463.1	466.4
87.5°	70.1	130.5	226.7	342.4	238.1
90°	1.6	70.1	158.2	241.3	50.6
92.5°	0.0	32.6	107.6	172.9	29.4
95°	1.6	11.4	66.9	115.8	21.2
97.5°	0.0	3.3	35.9	73.4	13.0
100°	0.0	1.6	14.7	40.8	8.2
102.5°	0.0	1.6	6.5	17.9	4.9
105°	0.0	1.6	3.3	6.5	3.3
107.5°	0.0	1.6	1.6	1.6	1.6
110°	1.6	1.6	1.6	1.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.6	1.6	0.0	0.0
115°	1.6	1.6	1.6	0.0	0.0
117.5°	1.6	1.6	1.6	0.0	0.0
120°	1.6	1.6	1.6	0.0	0.0
122.5°	1.6	1.6	1.6	0.0	0.0
125°	1.6	1.6	1.6	0.0	0.0
127.5°	1.6	1.6	1.6	0.0	0.0
130°	1.6	1.6	1.6	0.0	0.0
132.5°	1.6	3.3	1.6	1.6	0.0
135°	1.6	3.3	1.6	1.6	0.0
137.5°	1.6	3.3	1.6	1.6	0.0
140°	1.6	3.3	1.6	1.6	1.6
142.5°	3.3	3.3	3.3	1.6	1.6
145°	3.3	3.3	3.3	1.6	1.6
147.5°	3.3	3.3	3.3	1.6	1.6
150°	3.3	3.3	3.3	1.6	1.6
152.5°	3.3	4.9	3.3	1.6	1.6
155°	3.3	4.9	3.3	1.6	1.6
157.5°	3.3	4.9	3.3	1.6	1.6
160°	3.3	4.9	3.3	1.6	1.6
162.5°	4.9	4.9	3.3	3.3	1.6
165°	4.9	4.9	4.9	3.3	1.6
167.5°	4.9	4.9	4.9	3.3	1.6
170°	4.9	4.9	4.9	3.3	3.3
172.5°	4.9	4.9	4.9	3.3	3.3
175°	4.9	6.5	4.9	3.3	3.3
177.5°	4.9	6.5	4.9	3.3	3.3
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)