

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: P685838

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685838
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-M-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

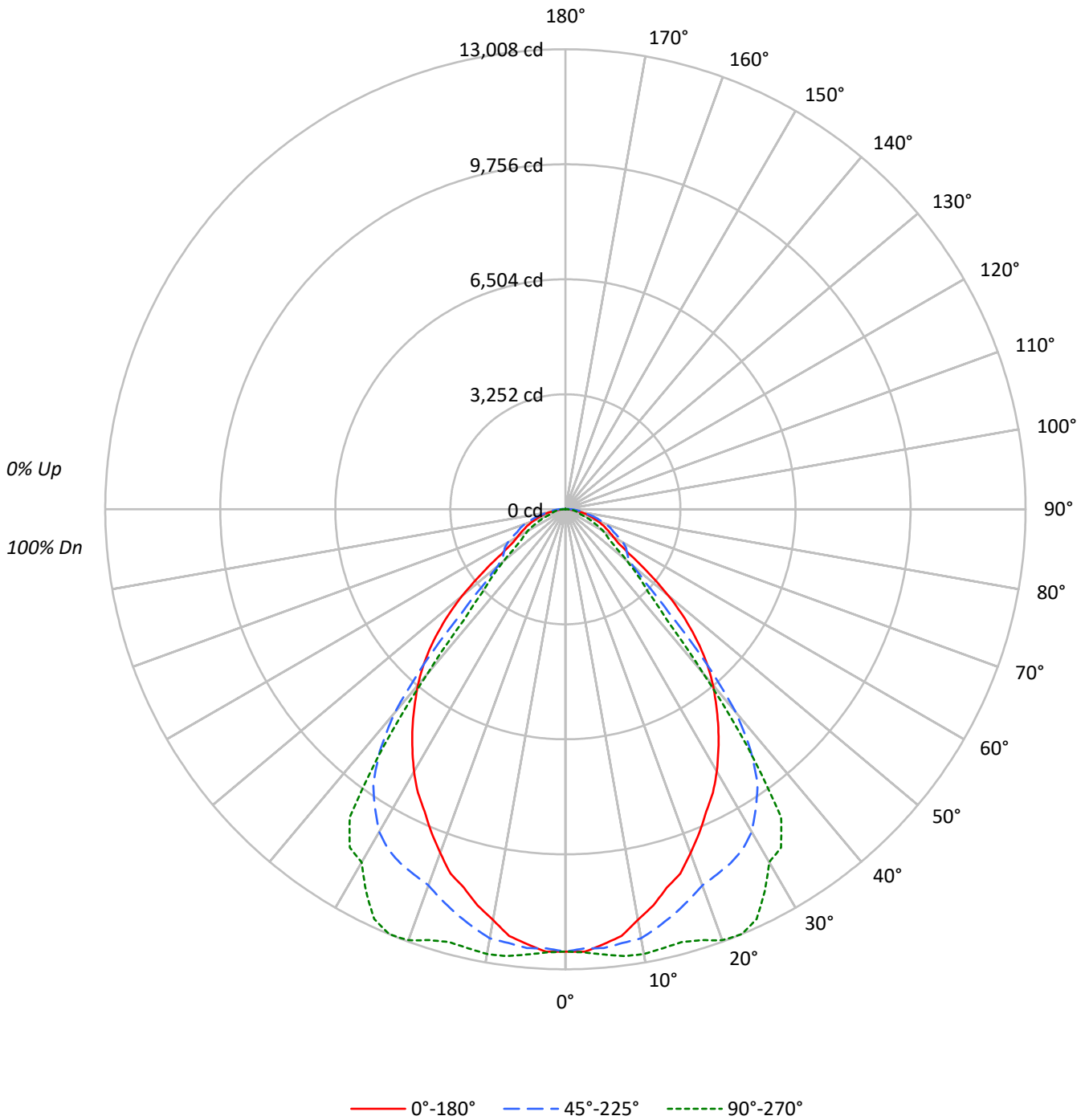
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23133.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.34 / 1.2
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

TEST NUMBER: P685838
CATALOG NUMBER: 8CZL-32-UNV-M-LVR-L950-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685838

CATALOG NUMBER: 8CZL-32-UNV-M-LVR-L950-CD-U

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	53	47	70	59	52	47	58	51	47	57	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20191	20191	20191
5°	20004	20184	20485
10°	19327	20196	20933
15°	18513	19819	21179
20°	17767	19442	22280
25°	16785	19673	22775
30°	15955	19630	21482
35°	14856	18668	20946
40°	13676	15824	12765
45°	12049	9432	7566
50°	9564	6263	5710
55°	6192	5958	4333
60°	5055	6056	3981
65°	4816	5707	3252
70°	4573	5727	2571
75°	4344	5361	2391
80°	4018	5064	2683
85°	3594	6193	3292



TEST NUMBER: P685838
 CATALOG NUMBER: 8CZL-32-UNV-M-LVR-L950-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1186.7	5.1
10°-20°	3366.1	14.6
20°-30°	5075.9	21.9
30°-40°	5608.7	24.2
40°-50°	3516.6	15.2
50°-60°	1893.3	8.2
60°-70°	1285.8	5.6
70°-80°	768.0	3.3
80°-90°	333.7	1.4
90°-100°	73.1	0.3
100°-110°	8.4	0.0
110°-120°	3.1	0.0
120°-130°	2.8	0.0
130°-140°	3.3	0.0
140°-150°	3.0	0.0
150°-160°	2.4	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	9628.7	41.6
0°-40°	15237.4	65.9
0°-60°	20647.3	89.3
0°-90°	23034.8	99.6
90°-120°	84.6	0.4
90°-150°	93.7	0.4
90°-180°	99.0	0.4
0°-180°	23133.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12506	12506	12506	12506	12506	
5°	12342	12364	12453	12600	12639	1163
15°	11076	11464	11857	12431	12670	3127
25°	9422	9994	11043	12220	12784	4350
35°	7537	8422	9471	10188	10627	4703
45°	5277	5745	4130	3367	3314	4025
55°	2200	2301	2117	1831	1539	2137
65°	1260	1386	1494	1213	851	1247
75°	696	775	859	706	383	734
85°	194	238	334	440	178	209
90°	5	73	170	282	52	13
95°	2	11	67	145	26	1
105°	2	3	5	11	5	2
115°	2	3	3	3	3	2
125°	2	3	3	3	3	1
135°	3	3	5	5	5	2
145°	3	5	5	5	6	2
155°	5	5	5	5	5	2
165°	5	6	6	6	6	1
175°	6	6	6	8	8	1
180°	8	8	8	8	8	



TEST NUMBER: P685838

CATALOG NUMBER: 8CZL-32-UNV-M-LVR-L950-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12505.6	12505.6	12505.6	12505.6	12505.6
2.5°	12521.9	12487.6	12424.0	12538.2	12539.8
5°	12342.5	12363.7	12453.4	12600.2	12639.3
7.5°	12168.0	12249.6	12370.2	12724.1	12742.0
10°	11788.1	11957.7	12318.1	12658.9	12768.1
12.5°	11471.7	11722.9	12094.6	12543.1	12712.7
15°	11075.5	11463.6	11856.6	12430.6	12670.3
17.5°	10798.3	11109.7	11590.8	12378.4	12771.4
20°	10340.1	10778.7	11315.2	12414.3	12967.1
22.5°	9894.9	10428.1	11176.6	12427.3	13007.8
25°	9422.0	9994.4	11042.9	12220.2	12784.4
27.5°	9030.6	9510.0	10843.9	11788.1	12195.8
30°	8557.7	9121.9	10529.2	11127.7	11522.3
32.5°	8049.0	8764.8	10018.8	10622.2	11339.7
35°	7536.9	8422.4	9470.9	10188.4	10627.0
37.5°	7002.1	8140.3	8609.9	8725.7	8425.7
40°	6488.4	7747.3	7507.6	6387.3	6056.3
42.5°	5927.5	6902.6	5855.7	4394.6	4246.3
45°	5276.8	5744.8	4130.5	3367.3	3313.5
47.5°	4583.8	4448.5	3080.3	2814.5	2783.5
50°	3807.6	3556.5	2493.3	2483.5	2273.1
52.5°	2967.8	2824.3	2235.6	2154.1	1819.8
55°	2199.8	2300.9	2116.6	1831.2	1539.3
57.5°	1761.1	1995.9	2033.4	1599.7	1376.3
60°	1565.4	1746.4	1875.3	1470.9	1232.8
62.5°	1404.0	1547.5	1679.6	1364.9	1063.2
65°	1260.5	1386.1	1493.7	1213.2	851.2
67.5°	1108.9	1239.3	1371.4	1042.0	724.0
70°	968.6	1107.2	1213.2	924.6	544.6
72.5°	823.5	967.0	1014.3	772.9	435.4
75°	696.3	774.6	859.4	706.1	383.2
77.5°	562.6	629.4	663.7	647.4	337.5
80°	432.1	485.9	544.6	588.7	288.6
82.5°	316.3	355.5	435.4	518.6	231.6
85°	194.0	238.1	334.3	440.3	177.7
87.5°	86.4	141.9	246.2	363.6	114.1
90°	4.9	73.4	169.6	282.1	52.2
92.5°	1.6	32.6	110.9	208.7	35.9
95°	1.6	11.4	66.9	145.1	26.1
97.5°	1.6	4.9	37.5	92.9	16.3
100°	1.6	3.3	17.9	53.8	11.4
102.5°	1.6	3.3	8.2	26.1	8.2
105°	1.6	3.3	4.9	11.4	4.9
107.5°	1.6	3.3	3.3	4.9	3.3
110°	1.6	3.3	3.3	3.3	3.3



TEST NUMBER: P685838
 CATALOG NUMBER: 8CZL-32-UNV-M-LVR-L950-CD-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	3.3	3.3	3.3	3.3
115°	1.6	3.3	3.3	3.3	3.3
117.5°	1.6	3.3	3.3	3.3	3.3
120°	1.6	3.3	3.3	3.3	3.3
122.5°	1.6	3.3	3.3	3.3	3.3
125°	1.6	3.3	3.3	3.3	3.3
127.5°	1.6	3.3	3.3	3.3	3.3
130°	1.6	3.3	3.3	3.3	3.3
132.5°	3.3	3.3	4.9	4.9	4.9
135°	3.3	3.3	4.9	4.9	4.9
137.5°	3.3	4.9	4.9	4.9	4.9
140°	3.3	4.9	4.9	4.9	4.9
142.5°	3.3	4.9	4.9	4.9	4.9
145°	3.3	4.9	4.9	4.9	6.5
147.5°	3.3	4.9	4.9	4.9	6.5
150°	3.3	4.9	4.9	4.9	4.9
152.5°	4.9	4.9	4.9	4.9	4.9
155°	4.9	4.9	4.9	4.9	4.9
157.5°	4.9	4.9	4.9	6.5	6.5
160°	4.9	6.5	6.5	6.5	6.5
162.5°	4.9	6.5	6.5	6.5	6.5
165°	4.9	6.5	6.5	6.5	6.5
167.5°	4.9	6.5	6.5	6.5	8.2
170°	6.5	6.5	6.5	8.2	8.2
172.5°	6.5	6.5	6.5	8.2	8.2
175°	6.5	6.5	6.5	8.2	8.2
177.5°	6.5	8.2	6.5	8.2	9.8
180°	8.2	8.2	8.2	8.2	8.2

(END OF REPORT)