

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: P685658

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685658
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-FUL-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL WITH UPLIGHT @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

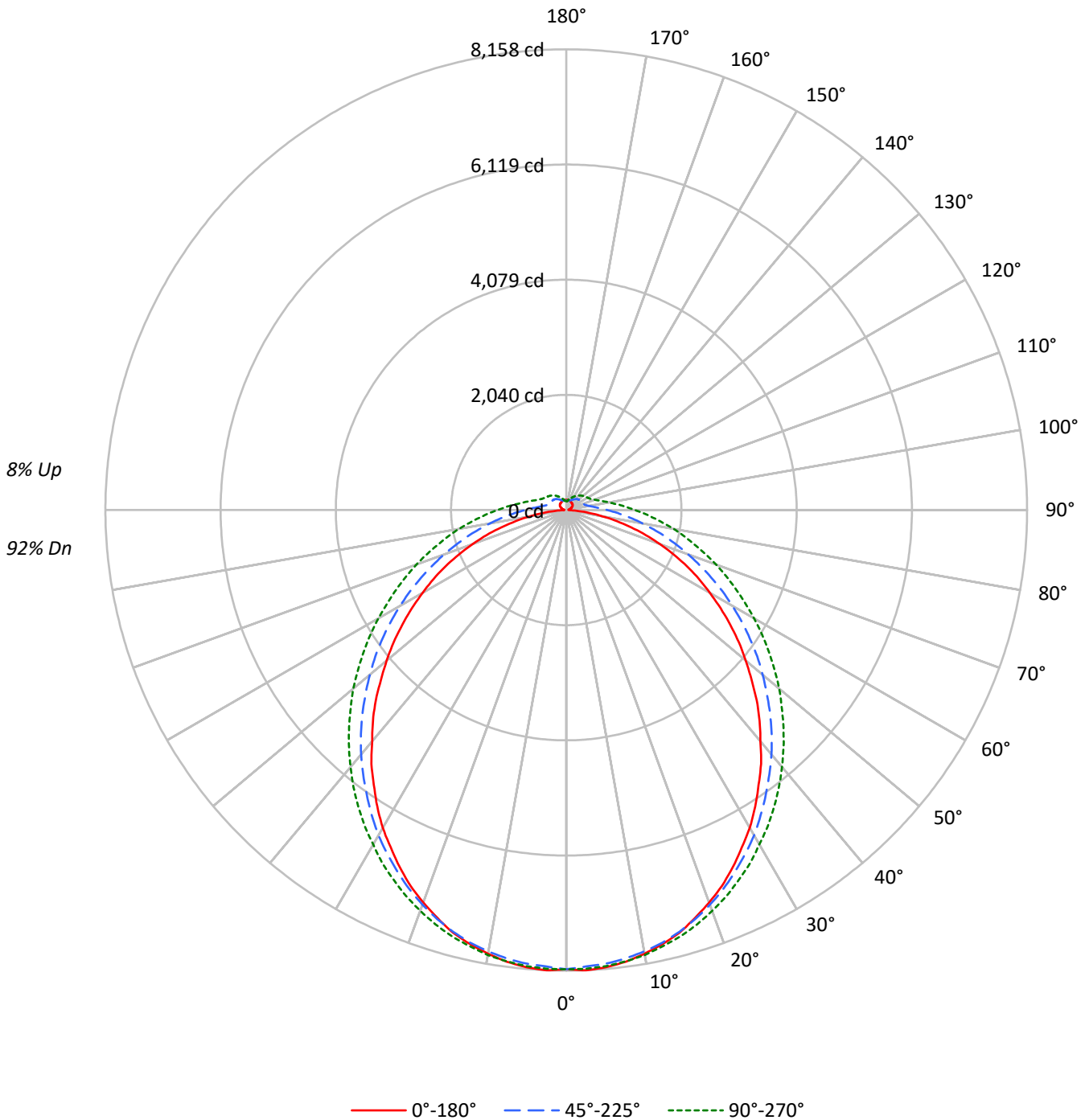
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25369.2 lumens
Efficiency: N/A
Efficacy: 123.2 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: 0.17')
CIE Type: Direct

Input Watts (W): 206
Input Voltage (V): 120
Input Current (Ain): 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: P685658
CATALOG NUMBER: 8CZL-32-UNV-FUL-L950-CD-U

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	95	95	95	95
1	106	101	96	92	102	98	93	90	92	88	85	87	84	81	82	79	77	77	77	77	75
2	96	87	80	74	93	85	78	73	80	74	70	75	71	67	71	68	64	64	64	64	62
3	87	77	68	61	84	74	67	60	70	64	58	66	61	56	63	58	54	54	54	54	52
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	47	47	47	44
5	74	61	51	45	71	59	50	44	56	49	43	53	47	42	50	45	41	41	41	41	38
6	68	54	45	39	65	53	45	38	50	43	38	48	42	37	46	40	36	36	36	36	33
7	63	49	41	34	61	48	40	34	46	39	33	44	37	32	42	36	32	32	32	32	30
8	59	45	37	31	57	44	36	30	42	35	30	40	34	29	38	33	28	28	28	28	26
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	26	26	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	23	23	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13130	13130	13130
5°	13148	12893	12912
10°	13033	12666	12672
15°	12883	12406	12400
20°	12613	12095	12100
25°	12311	11736	11777
30°	11971	11372	11428
35°	11534	10940	11091
40°	11076	10529	10722
45°	10665	10077	10345
50°	10168	9614	9982
55°	9686	9135	9583
60°	9148	8629	9210
65°	8623	8107	8859
70°	7856	7601	8595
75°	6909	7134	8359
80°	5546	6787	8418
85°	3489	6693	8669



TEST NUMBER: P685658
 CATALOG NUMBER: 8CZL-32-UNV-FUL-L950-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.2	3.0
10°-20°	2188.6	8.6
20°-30°	3268.1	12.9
30°-40°	3863.3	15.2
40°-50°	3936.8	15.5
50°-60°	3549.8	14.0
60°-70°	2808.8	11.1
70°-80°	1898.2	7.5
80°-90°	1061.6	4.2
90°-100°	577.7	2.3
100°-110°	378.9	1.5
110°-120°	300.5	1.2
120°-130°	255.7	1.0
130°-140°	204.5	0.8
140°-150°	146.3	0.6
150°-160°	94.3	0.4
160°-170°	50.9	0.2
170°-180°	15.9	0.1
0°-30°	6225.9	24.5
0°-40°	10089.3	39.8
0°-60°	17575.8	69.3
0°-90°	23344.4	92.0
90°-120°	1257.1	5.0
90°-150°	1863.6	7.3
90°-180°	2025.0	8.0
0°-180°	25369.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8132	8132	8132	8132	8132	
5°	8127	8114	8064	8109	8106	771
15°	7750	7741	7733	7800	7816	2180
25°	6978	7010	7067	7199	7227	3212
35°	5937	6019	6157	6353	6415	3717
45°	4768	4863	5102	5340	5437	3672
55°	3543	3676	3969	4269	4377	3170
65°	2358	2477	2832	3181	3314	2328
75°	1194	1358	1810	2211	2340	1268
85°	233	523	1006	1398	1538	286
90°	36	289	724	1081	1215	27
95°	39	189	532	850	969	34
105°	67	168	347	548	629	70
115°	104	181	310	424	471	103
125°	139	188	295	382	413	123
135°	153	184	274	341	364	118
145°	160	176	230	290	307	100
155°	171	173	191	240	246	79
165°	178	174	171	179	194	50
175°	179	176	170	148	150	17
180°	166	166	166	166	166	

TEST NUMBER: P685658

CATALOG NUMBER: 8CZL-32-UNV-FUL-L950-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8132.1	8132.1	8132.1	8132.1	8132.1
2.5°	8158.2	8145.2	8091.4	8133.8	8132.1
5°	8127.2	8114.2	8063.6	8109.3	8106.0
7.5°	8066.9	8058.7	8011.5	8062.0	8060.4
10°	7978.8	7978.8	7938.1	7996.8	8001.7
12.5°	7872.8	7871.2	7850.0	7910.4	7910.4
15°	7750.5	7740.8	7732.6	7799.5	7815.8
17.5°	7576.1	7582.6	7597.3	7677.2	7693.5
20°	7396.7	7411.4	7439.1	7533.7	7554.9
22.5°	7204.3	7220.6	7264.6	7367.3	7401.6
25°	6977.6	7010.2	7067.3	7199.4	7227.1
27.5°	6733.0	6790.1	6863.5	7003.7	7051.0
30°	6498.2	6543.9	6649.8	6796.6	6837.4
32.5°	6227.5	6282.9	6406.9	6583.0	6638.4
35°	5937.2	6018.8	6157.4	6353.1	6415.0
37.5°	5666.6	5731.8	5903.0	6111.7	6185.1
40°	5346.9	5452.9	5650.3	5855.7	5940.5
42.5°	5066.5	5157.8	5379.6	5606.2	5694.3
45°	4768.1	4862.6	5102.3	5340.4	5436.6
47.5°	4448.5	4561.0	4817.0	5082.8	5172.5
50°	4148.4	4265.8	4539.8	4808.8	4921.3
52.5°	3853.3	3975.6	4259.3	4543.0	4647.4
55°	3543.4	3675.5	3969.0	4269.1	4376.7
57.5°	3240.1	3372.2	3685.3	3995.1	4110.9
60°	2935.2	3059.1	3395.0	3713.0	3840.2
62.5°	2649.8	2770.5	3116.2	3458.6	3569.5
65°	2357.9	2477.0	2832.5	3181.4	3313.5
67.5°	2056.3	2199.8	2556.9	2922.2	3062.4
70°	1759.5	1906.2	2300.9	2680.8	2821.0
72.5°	1479.0	1645.3	2043.2	2431.3	2574.8
75°	1193.6	1358.3	1810.0	2211.2	2340.0
77.5°	924.6	1117.0	1581.7	1986.1	2137.8
80°	666.9	885.5	1376.3	1772.5	1932.3
82.5°	438.6	688.1	1185.5	1578.5	1722.0
85°	233.2	523.4	1006.1	1397.5	1537.7
87.5°	91.3	388.1	856.1	1232.8	1373.0
90°	35.9	288.6	724.0	1081.1	1214.8
92.5°	35.9	225.0	616.4	958.8	1084.4
95°	39.1	189.2	531.6	849.6	968.6
97.5°	42.4	171.2	464.7	753.4	859.4
100°	48.9	164.7	414.2	675.1	771.3
102.5°	57.1	164.7	373.4	603.3	694.7
105°	66.9	168.0	347.3	547.9	629.4
107.5°	75.0	171.2	329.4	502.2	575.6
110°	84.8	176.1	319.6	468.0	531.6

TEST NUMBER: P685658

CATALOG NUMBER: 8CZL-32-UNV-FUL-L950-CD-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.6	179.4	313.1	443.5	499.0
115°	104.4	181.0	309.8	424.0	471.3
117.5°	114.1	184.3	306.6	410.9	451.7
120°	123.9	185.9	303.3	401.1	437.0
122.5°	132.1	185.9	300.0	391.4	424.0
125°	138.6	187.5	295.2	381.6	412.6
127.5°	143.5	189.2	291.9	371.8	399.5
130°	148.4	187.5	287.0	362.0	388.1
132.5°	151.7	185.9	280.5	352.2	376.7
135°	153.3	184.3	274.0	340.8	363.6
137.5°	154.9	182.6	264.2	329.4	350.6
140°	154.9	181.0	252.8	316.3	335.9
142.5°	156.5	177.7	241.3	303.3	321.2
145°	159.8	176.1	229.9	290.3	306.6
147.5°	163.1	172.9	220.1	275.6	290.3
150°	166.3	172.9	210.4	262.5	275.6
152.5°	168.0	172.9	200.6	251.1	260.9
155°	171.2	172.9	190.8	239.7	246.2
157.5°	172.9	172.9	184.3	225.0	231.6
160°	174.5	174.5	177.7	208.7	218.5
162.5°	177.7	174.5	174.5	192.4	205.5
165°	177.7	174.5	171.2	179.4	194.0
167.5°	179.4	176.1	169.6	169.6	184.3
170°	179.4	176.1	169.6	161.4	169.6
172.5°	179.4	176.1	169.6	154.9	158.2
175°	179.4	176.1	169.6	148.4	150.0
177.5°	179.4	176.1	168.0	143.5	150.0
180°	166.3	166.3	166.3	166.3	166.3

(END OF REPORT)