

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: P685416

Luminaire Tested: **8CZL-18-UNV-N-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685416
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-N-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

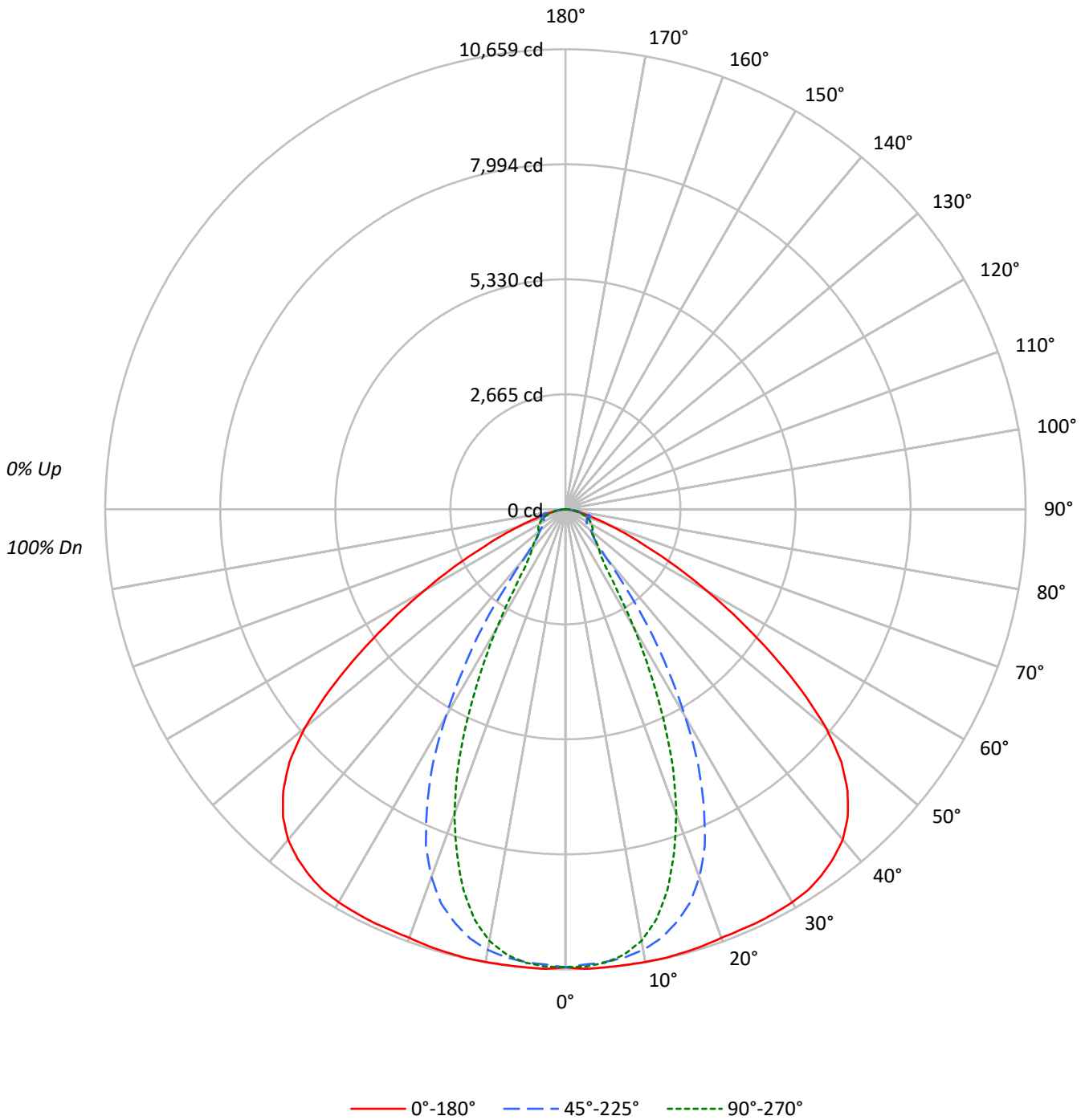
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14981.9 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 0.81 / 0.89
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 109
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: P685416
CATALOG NUMBER: 8CZL-18-UNV-N-L950-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685416
 CATALOG NUMBER: 8CZL-18-UNV-N-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	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17134	17134	17134
5°	17267	17068	17094
10°	17459	16995	16643
15°	17764	16575	15259
20°	18155	15587	12900
25°	18808	13509	9585
30°	19594	10347	5947
35°	20400	6689	3190
40°	21061	3114	2554
45°	21106	2113	2175
50°	19788	1936	2002
55°	16360	1744	2172
60°	12245	1839	2230
65°	8255	2103	2388
70°	5240	2564	2457
75°	3162	3820	2452
80°	1928	3409	2284
85°	1247	2208	1567



TEST NUMBER: P685416
 CATALOG NUMBER: 8CZL-18-UNV-N-L950-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.6	6.7
10°-20°	2773.6	18.5
20°-30°	3542.3	23.6
30°-40°	2873.0	19.2
40°-50°	2032.8	13.6
50°-60°	1324.0	8.8
60°-70°	813.0	5.4
70°-80°	482.9	3.2
80°-90°	135.7	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7320.5	48.9
0°-40°	10193.5	68.0
0°-60°	13550.2	90.4
0°-90°	14981.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14981.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10612	10612	10612	10612	10612	
5°	10654	10631	10531	10574	10547	1017
15°	10627	10484	9916	9401	9129	3010
25°	10557	9686	7583	5896	5380	4881
35°	10350	7026	3394	1820	1618	6473
45°	9244	3537	925	984	953	7050
55°	5812	1191	620	723	772	5194
65°	2161	610	550	660	625	2245
75°	507	347	612	448	393	591
85°	67	135	119	106	85	94
90°	0	0	0	0	0	



TEST NUMBER: P685416

CATALOG NUMBER: 8CZL-18-UNV-N-L950-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10611.8	10611.8	10611.8	10611.8	10611.8
2.5°	10659.1	10638.2	10557.3	10620.9	10602.7
5°	10653.7	10630.9	10530.9	10573.6	10547.2
7.5°	10650.0	10616.4	10474.5	10461.7	10407.1
10°	10649.1	10590.0	10366.2	10243.4	10151.5
12.5°	10651.0	10546.3	10188.8	9917.7	9731.2
15°	10627.3	10483.6	9915.8	9400.9	9128.9
17.5°	10605.5	10339.8	9571.9	8768.6	8360.1
20°	10566.3	10197.9	9071.6	7993.5	7507.6
22.5°	10555.4	9983.2	8439.2	6995.4	6514.1
25°	10557.3	9685.7	7583.1	5895.5	5380.5
27.5°	10537.2	9289.0	6650.6	4831.9	4222.4
30°	10509.9	8726.7	5549.7	3691.9	3189.7
32.5°	10461.7	7938.0	4422.5	2631.1	2214.4
35°	10349.8	7026.3	3393.5	1820.5	1618.5
37.5°	10194.2	6012.8	2288.1	1366.5	1333.8
40°	9992.3	5093.0	1477.5	1194.6	1211.8
42.5°	9679.3	4298.8	1079.0	1086.3	1088.1
45°	9243.5	3537.3	925.3	983.5	952.6
47.5°	8670.3	2777.6	840.6	857.0	852.5
50°	7877.9	2079.8	770.6	767.0	797.0
52.5°	6898.1	1538.5	698.7	729.7	786.1
55°	5811.8	1190.9	619.6	723.3	771.5
57.5°	4770.1	965.3	574.1	705.1	733.3
60°	3792.0	804.3	569.5	671.4	690.5
62.5°	2929.5	689.6	566.8	655.1	662.3
65°	2160.8	610.5	550.4	660.5	625.0
67.5°	1573.9	585.0	537.7	651.4	575.9
70°	1109.9	514.0	543.1	601.4	520.4
72.5°	753.3	429.4	604.1	530.4	455.8
75°	506.8	346.6	612.3	448.5	393.0
77.5°	329.3	288.4	520.4	366.6	325.7
80°	207.4	240.2	366.6	282.0	245.6
82.5°	134.6	184.7	232.0	199.2	169.2
85°	67.3	134.6	119.2	106.4	84.6
87.5°	40.0	81.9	63.7	46.4	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)