

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: P685328

Luminaire Tested: **8CZL-32-UNV-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685328
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

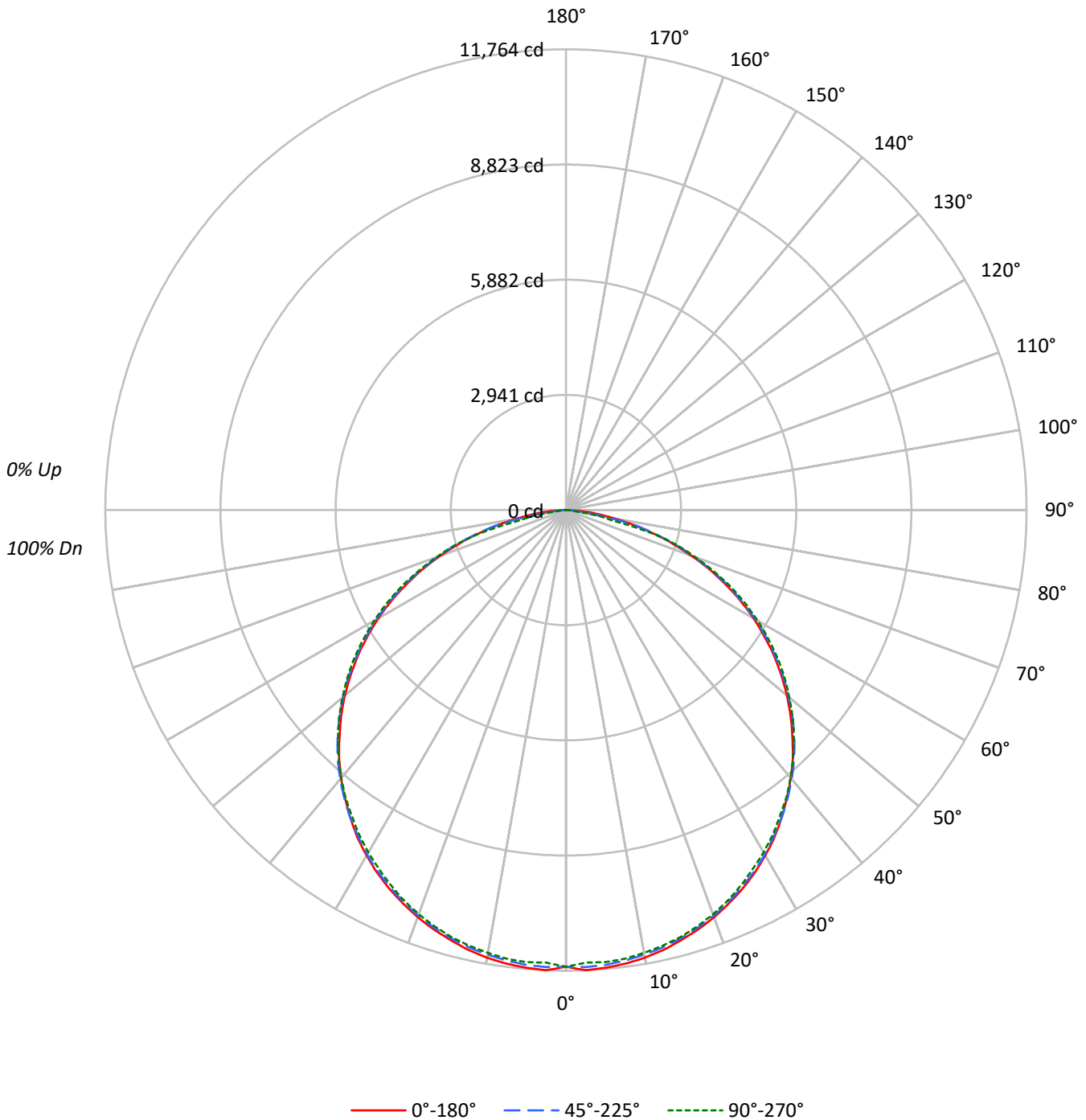
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34590.4 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
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 (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: P685328
CATALOG NUMBER: 8CZL-32-UNV-L850-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685328
 CATALOG NUMBER: 8CZL-32-UNV-L850-CD-U

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18827	18827	18827
5°	19014	18893	18778
10°	19030	18902	18820
15°	19004	18927	18867
20°	19009	18942	18869
25°	19013	18937	18842
30°	18990	18937	18817
35°	18921	18921	18788
40°	18832	18907	18817
45°	18673	18835	18795
50°	18515	18649	18711
55°	18268	18398	18578
60°	17869	18030	18247
65°	17203	17447	17746
70°	16089	16408	16559
75°	14477	14744	13989
80°	12094	9848	7666
85°	9020	2369	856



TEST NUMBER: P685328
 CATALOG NUMBER: 8CZL-32-UNV-L850-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1106.2	3.2
10°-20°	3189.4	9.2
20°-30°	4884.1	14.1
30°-40°	5979.8	17.3
40°-50°	6326.1	18.3
50°-60°	5833.6	16.9
60°-70°	4500.1	13.0
70°-80°	2403.4	6.9
80°-90°	367.8	1.1
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°	9179.8	26.5
0°-40°	15159.6	43.8
0°-60°	27319.2	79.0
0°-90°	34590.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34590.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11660	11660	11660	11660	11660	
5°	11732	11593	11657	11607	11586	1116
15°	11369	11248	11323	11284	11287	3212
25°	10672	10562	10630	10552	10577	4919
35°	9599	9542	9599	9518	9532	6006
45°	8178	8174	8249	8192	8231	6312
55°	6490	6482	6536	6575	6600	5789
65°	4503	4503	4567	4602	4645	4446
75°	2321	2317	2363	2381	2242	2457
85°	487	348	128	53	46	597
90°	0	0	0	0	0	



TEST NUMBER: P685328

CATALOG NUMBER: 8CZL-32-UNV-L850-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11660.5	11660.5	11660.5	11660.5	11660.5
2.5°	11763.6	11625.0	11681.9	11639.2	11568.1
5°	11731.6	11593.0	11657.0	11607.2	11585.9
7.5°	11681.9	11539.7	11603.7	11564.6	11557.5
10°	11607.2	11461.5	11529.0	11486.4	11479.3
12.5°	11507.7	11365.6	11440.2	11390.4	11397.5
15°	11369.1	11248.3	11322.9	11283.8	11287.4
17.5°	11230.5	11106.1	11184.3	11145.2	11148.8
20°	11063.5	10942.6	11024.4	10964.0	10981.7
22.5°	10875.1	10768.5	10839.6	10761.4	10796.9
25°	10672.5	10562.4	10629.9	10551.7	10576.6
27.5°	10441.5	10338.5	10406.0	10324.2	10334.9
30°	10185.6	10093.2	10157.2	10075.5	10093.2
32.5°	9912.0	9830.2	9880.0	9805.4	9830.2
35°	9599.2	9542.4	9599.2	9517.5	9531.7
37.5°	9272.3	9215.4	9293.6	9222.5	9247.4
40°	8934.7	8881.3	8970.2	8899.1	8927.5
42.5°	8575.7	8536.6	8625.5	8554.4	8589.9
45°	8177.7	8174.1	8248.7	8191.9	8231.0
47.5°	7783.2	7776.1	7850.7	7811.6	7857.8
50°	7370.9	7363.8	7424.2	7420.7	7449.1
52.5°	6930.2	6940.9	6997.7	7008.4	7040.4
55°	6489.5	6482.4	6535.7	6574.8	6599.7
57.5°	6009.7	6024.0	6066.6	6112.8	6130.6
60°	5533.5	5526.4	5583.3	5622.4	5650.8
62.5°	5028.9	5028.9	5075.1	5131.9	5160.3
65°	4502.9	4502.9	4566.8	4602.4	4645.0
67.5°	3966.2	3955.6	4012.4	4090.6	4083.5
70°	3408.2	3411.8	3475.8	3514.9	3507.8
72.5°	2853.8	2864.5	2932.0	2949.8	2967.6
75°	2320.7	2317.2	2363.4	2381.2	2242.5
77.5°	1791.2	1794.7	1823.2	1336.3	1172.8
80°	1300.7	1307.9	1059.1	824.5	824.5
82.5°	860.1	845.8	543.8	319.9	234.6
85°	486.9	348.3	127.9	53.3	46.2
87.5°	199.0	64.0	35.5	24.9	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)