

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: P685308

Luminaire Tested: **8CZL-32-UNV-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685308
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

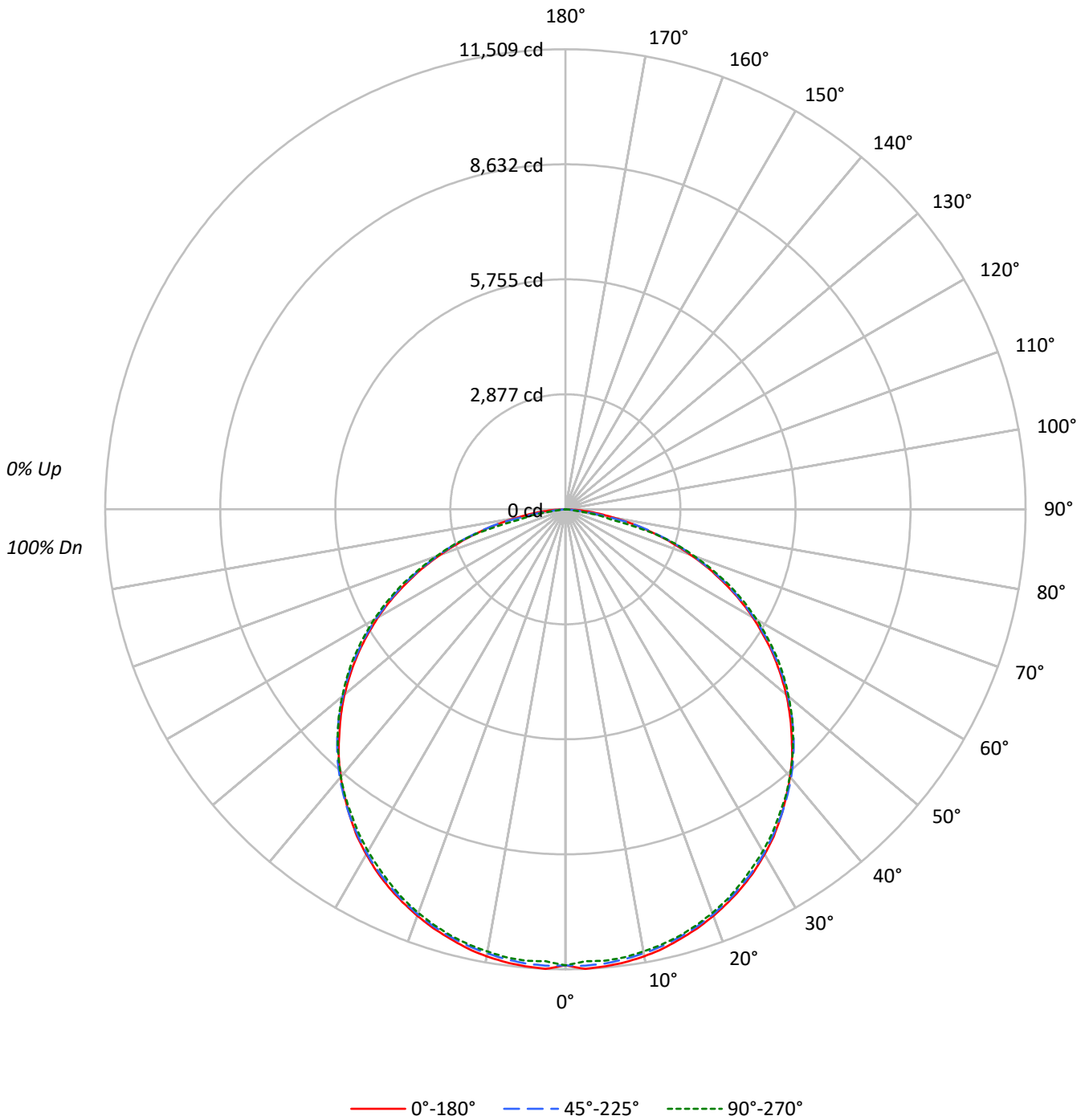
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33842.9 lumens
Efficiency: N/A
Efficacy: 164.3 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

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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	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°	18420	18420	18420
5°	18603	18485	18372
10°	18619	18493	18414
15°	18593	18518	18460
20°	18599	18533	18461
25°	18602	18528	18435
30°	18579	18528	18411
35°	18512	18512	18381
40°	18425	18498	18410
45°	18269	18428	18388
50°	18115	18246	18307
55°	17873	18000	18176
60°	17482	17640	17853
65°	16831	17071	17362
70°	15742	16054	16202
75°	14165	14425	13687
80°	11833	9635	7501
85°	8825	2319	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1082.3	3.2
10°-20°	3120.5	9.2
20°-30°	4778.6	14.1
30°-40°	5850.6	17.3
40°-50°	6189.4	18.3
50°-60°	5707.5	16.9
60°-70°	4402.8	13.0
70°-80°	2351.4	6.9
80°-90°	359.8	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°	8981.4	26.5
0°-40°	14832.0	43.8
0°-60°	26728.8	79.0
0°-90°	33842.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33842.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11409	11409	11409	11409	11409	
5°	11478	11342	11405	11356	11336	1092
15°	11123	11005	11078	11040	11044	3143
25°	10442	10334	10400	10324	10348	4813
35°	9392	9336	9392	9312	9326	5877
45°	8001	7998	8070	8015	8053	6176
55°	6349	6342	6394	6433	6457	5664
65°	4406	4406	4468	4503	4545	4350
75°	2271	2267	2312	2330	2194	2404
85°	476	341	125	52	45	584
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11408.6	11408.6	11408.6	11408.6	11408.6
2.5°	11509.4	11373.8	11429.4	11387.7	11318.2
5°	11478.1	11342.5	11405.1	11356.4	11335.5
7.5°	11429.4	11290.3	11352.9	11314.7	11307.7
10°	11356.4	11213.8	11279.9	11238.2	11231.2
12.5°	11259.0	11120.0	11193.0	11144.3	11151.3
15°	11123.4	11005.2	11078.2	11040.0	11043.5
17.5°	10987.8	10866.1	10942.6	10904.4	10907.8
20°	10824.4	10706.2	10786.1	10727.0	10744.4
22.5°	10640.1	10535.8	10605.3	10528.8	10563.6
25°	10441.9	10334.1	10400.2	10323.7	10348.0
27.5°	10215.9	10115.1	10181.1	10101.1	10111.6
30°	9965.5	9875.1	9937.7	9857.7	9875.1
32.5°	9697.8	9617.8	9666.5	9593.5	9617.8
35°	9391.8	9336.2	9391.8	9311.8	9325.7
37.5°	9071.9	9016.3	9092.8	9023.2	9047.6
40°	8741.6	8689.4	8776.4	8706.8	8734.6
42.5°	8390.4	8352.1	8439.1	8369.5	8404.3
45°	8000.9	7997.5	8070.5	8014.9	8053.1
47.5°	7615.0	7608.0	7681.0	7642.8	7688.0
50°	7211.6	7204.7	7263.8	7260.3	7288.1
52.5°	6780.5	6790.9	6846.5	6857.0	6888.3
55°	6349.3	6342.3	6394.5	6432.7	6457.1
57.5°	5879.9	5893.8	5935.5	5980.7	5998.1
60°	5413.9	5407.0	5462.6	5500.9	5528.7
62.5°	4920.2	4920.2	4965.4	5021.0	5048.8
65°	4405.6	4405.6	4468.2	4502.9	4544.6
67.5°	3880.5	3870.1	3925.7	4002.2	3995.3
70°	3334.6	3338.1	3400.7	3438.9	3432.0
72.5°	2792.2	2802.6	2868.7	2886.0	2903.4
75°	2270.6	2267.1	2312.3	2329.7	2194.1
77.5°	1752.5	1756.0	1783.8	1307.4	1147.5
80°	1272.6	1279.6	1036.2	806.7	806.7
82.5°	841.5	827.6	532.0	312.9	229.5
85°	476.4	340.8	125.2	52.2	45.2
87.5°	194.7	62.6	34.8	24.3	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)