

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: P685307

Luminaire Tested: **8CZL-24-UNV-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685307
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-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

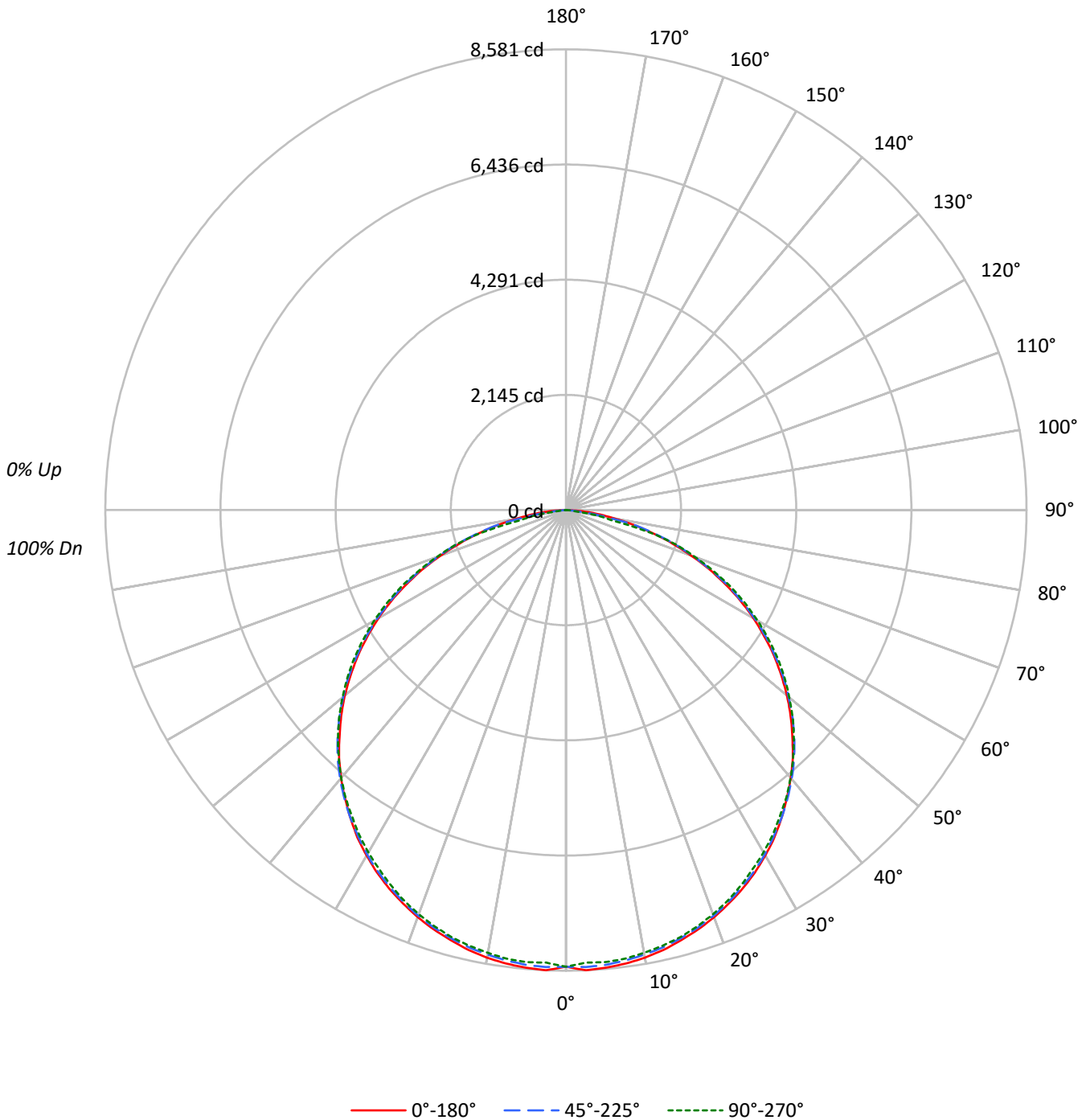
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25231.4 lumens
Efficiency: N/A
Efficacy: 163.8 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): 154
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°	13733	13733	13733
5°	13870	13781	13697
10°	13881	13788	13728
15°	13862	13806	13763
20°	13866	13817	13764
25°	13869	13813	13744
30°	13852	13813	13726
35°	13801	13801	13704
40°	13736	13791	13725
45°	13621	13739	13709
50°	13505	13603	13648
55°	13325	13420	13551
60°	13034	13151	13310
65°	12548	12727	12944
70°	11736	11969	12079
75°	10560	10754	10205
80°	8822	7183	5592
85°	6580	1728	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.9	3.2
10°-20°	2326.5	9.2
20°-30°	3562.7	14.1
30°-40°	4361.9	17.3
40°-50°	4614.4	18.3
50°-60°	4255.2	16.9
60°-70°	3282.5	13.0
70°-80°	1753.1	6.9
80°-90°	268.3	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°	6696.0	26.5
0°-40°	11057.9	43.8
0°-60°	19927.5	79.0
0°-90°	25231.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25231.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8506	8506	8506	8506	8506	
5°	8557	8456	8503	8467	8451	814
15°	8293	8205	8259	8231	8233	2343
25°	7785	7704	7754	7697	7715	3588
35°	7002	6960	7002	6942	6953	4381
45°	5965	5962	6017	5975	6004	4604
55°	4734	4728	4767	4796	4814	4223
65°	3284	3284	3331	3357	3388	3243
75°	1693	1690	1724	1737	1636	1792
85°	355	254	93	39	34	436
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8505.6	8505.6	8505.6	8505.6	8505.6
2.5°	8580.8	8479.7	8521.1	8490.0	8438.2
5°	8557.4	8456.3	8503.0	8466.7	8451.1
7.5°	8521.1	8417.4	8464.1	8435.6	8430.4
10°	8466.7	8360.4	8409.7	8378.6	8373.4
12.5°	8394.1	8290.4	8344.9	8308.6	8313.7
15°	8293.0	8204.9	8259.3	8230.8	8233.4
17.5°	8191.9	8101.2	8158.2	8129.7	8132.3
20°	8070.1	7981.9	8041.5	7997.5	8010.4
22.5°	7932.7	7854.9	7906.7	7849.7	7875.6
25°	7784.9	7704.5	7753.8	7696.8	7714.9
27.5°	7616.4	7541.2	7590.5	7530.8	7538.6
30°	7429.7	7362.3	7409.0	7349.4	7362.3
32.5°	7230.1	7170.5	7206.8	7152.4	7170.5
35°	7002.0	6960.5	7002.0	6942.4	6952.7
37.5°	6763.5	6722.0	6779.1	6727.2	6745.4
40°	6517.2	6478.3	6543.2	6491.3	6512.0
42.5°	6255.4	6226.9	6291.7	6239.8	6265.8
45°	5965.1	5962.5	6016.9	5975.4	6003.9
47.5°	5677.3	5672.1	5726.6	5698.0	5731.7
50°	5376.6	5371.4	5415.5	5412.9	5433.6
52.5°	5055.1	5062.9	5104.4	5112.2	5135.5
55°	4733.7	4728.5	4767.4	4795.9	4814.0
57.5°	4383.7	4394.1	4425.2	4458.9	4471.8
60°	4036.3	4031.1	4072.6	4101.1	4121.9
62.5°	3668.2	3668.2	3701.9	3743.4	3764.1
65°	3284.5	3284.5	3331.2	3357.1	3388.2
67.5°	2893.1	2885.3	2926.8	2983.8	2978.6
70°	2486.1	2488.7	2535.3	2563.9	2558.7
72.5°	2081.7	2089.5	2138.7	2151.7	2164.6
75°	1692.8	1690.2	1723.9	1736.9	1635.8
77.5°	1306.6	1309.1	1329.9	974.7	855.5
80°	948.8	954.0	772.5	601.4	601.4
82.5°	627.4	617.0	396.6	233.3	171.1
85°	355.2	254.1	93.3	38.9	33.7
87.5°	145.2	46.7	25.9	18.1	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)