

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: P685488

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685488
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-W-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

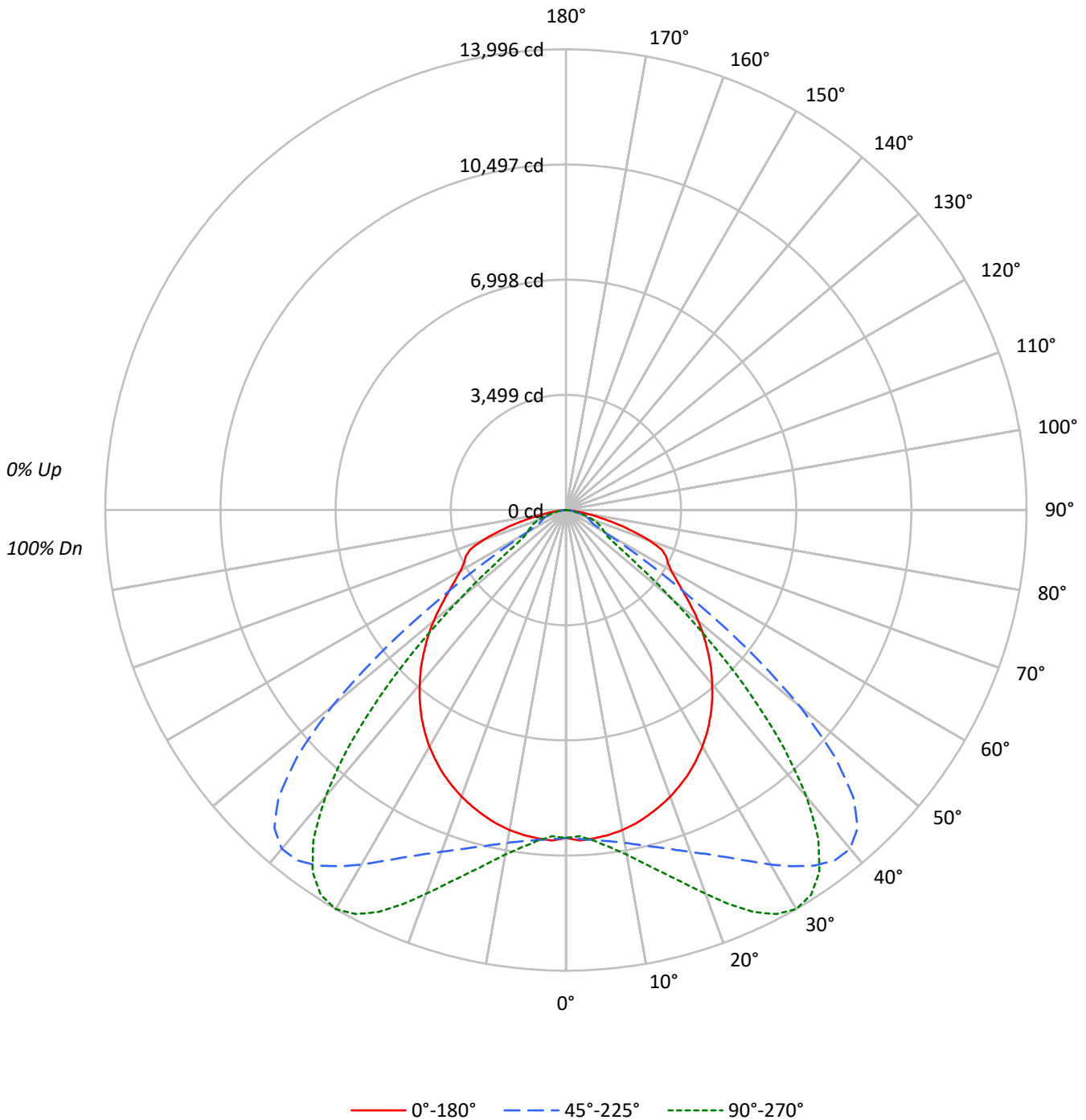
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31857.1 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.69 / 1.65
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				
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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	77	77	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	67	67	67	65
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	45	45	45	43
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	39	39	39	38
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	32	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16083	16083	16083
5°	16223	16307	16357
10°	16183	16830	17421
15°	16065	17721	19070
20°	15925	18983	21304
25°	15734	20744	23996
30°	15465	23181	26093
35°	15087	25982	26453
40°	14563	28309	23965
45°	13935	28201	18189
50°	13180	23306	10483
55°	12284	12820	5391
60°	11922	4474	4395
65°	12848	3255	4406
70°	12688	3335	4251
75°	9593	2917	3414
80°	5796	2383	2416
85°	2888	1219	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.0	3.0
10°-20°	2997.7	9.4
20°-30°	5265.9	16.5
30°-40°	7315.7	23.0
40°-50°	7419.0	23.3
50°-60°	4761.1	14.9
60°-70°	2226.8	7.0
70°-80°	772.2	2.4
80°-90°	134.6	0.4
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°	9227.7	29.0
0°-40°	16543.4	51.9
0°-60°	28723.4	90.2
0°-90°	31857.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31857.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9961	9961	9961	9961	9961	
5°	10009	9938	10061	10093	10092	951
15°	9611	9840	10602	11170	11408	2712
25°	8832	9737	11644	13007	13469	4065
35°	7654	9819	13182	13636	13421	4780
45°	6103	10511	12351	9212	7966	4704
55°	4364	10856	4554	2192	1915	3939
65°	3363	3469	852	1067	1153	3272
75°	1538	532	468	539	547	1664
85°	156	140	66	37	28	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9960.8	9960.8	9960.8	9960.8	9960.8	9960.8	9960.8	9960.8	9960.8	9960.8	9960.8
2.5°	10047.4	10016.2	9964.3	9943.5	9953.9	10005.8	10023.2	9985.1	9974.7	9947.0	9919.3
5°	10009.3	9981.6	9943.5	9936.6	9974.7	10061.3	10099.4	10089.0	10106.3	10109.7	10092.4
7.5°	9953.9	9929.6	9898.5	9929.6	10009.3	10147.8	10234.4	10262.1	10324.5	10338.3	10334.9
10°	9870.8	9850.0	9839.6	9919.3	10057.8	10265.6	10418.0	10494.2	10584.2	10615.4	10625.8
12.5°	9759.9	9739.2	9766.9	9905.4	10123.6	10421.5	10646.6	10781.6	10909.8	10975.6	10996.4
15°	9611.0	9604.1	9673.4	9895.0	10206.7	10601.5	10913.3	11124.5	11308.1	11380.8	11408.5
17.5°	9448.2	9451.7	9576.4	9891.5	10307.2	10812.8	11211.1	11512.4	11737.6	11841.5	11872.6
20°	9268.1	9278.5	9465.5	9888.1	10431.8	11048.3	11540.1	11935.0	12215.5	12354.0	12399.1
22.5°	9056.9	9077.6	9344.3	9891.5	10563.5	11318.5	11928.0	12399.1	12735.0	12901.3	12956.7
25°	8831.7	8862.9	9219.6	9908.9	10729.7	11644.0	12371.4	12922.0	13261.5	13406.9	13469.3
27.5°	8572.0	8623.9	9084.6	9933.1	10927.1	12021.6	12825.1	13355.0	13670.1	13781.0	13836.4
30°	8294.9	8353.8	8953.0	9981.6	11183.4	12433.7	13244.1	13690.9	13902.2	13964.5	13995.7
32.5°	7990.1	8087.1	8821.3	10061.3	11484.7	12832.0	13552.4	13819.1	13871.0	13850.2	13860.6
35°	7654.2	7758.1	8696.7	10192.9	11827.6	13181.8	13673.6	13673.6	13521.2	13427.7	13420.8
37.5°	7297.4	7429.1	8572.0	10345.3	12225.9	13413.9	13542.0	13199.1	12828.5	12627.7	12596.5
40°	6909.5	7086.2	8485.4	10553.1	12586.1	13431.2	13071.0	12364.4	11734.1	11408.5	11370.4
42.5°	6525.1	6743.3	8447.3	10823.2	12856.2	13112.5	12184.3	11093.4	10237.9	9853.4	9811.9
45°	6102.6	6390.0	8461.2	11193.8	12929.0	12350.6	10864.8	9451.7	8492.3	8007.4	7965.9
47.5°	5683.5	6040.2	8495.8	11612.9	12610.3	11058.7	9108.8	7474.1	6521.6	6012.5	6005.6
50°	5247.1	5711.2	8578.9	11955.7	11747.9	9278.5	6951.1	5354.5	4592.5	4204.6	4173.4
52.5°	4793.4	5423.7	8759.0	12018.1	10213.6	6992.7	4717.2	3574.3	3079.0	2833.1	2784.6
55°	4363.9	5181.3	9053.4	11457.0	8007.4	4554.4	2971.6	2254.7	2005.3	1904.9	1915.3
57.5°	3993.3	5001.2	9396.3	9992.0	5198.6	2680.7	1721.3	1499.7	1492.7	1503.1	1506.6
60°	3692.0	4890.4	9548.7	7494.9	2853.9	1385.4	1201.8	1250.3	1316.1	1354.2	1361.1
62.5°	3494.6	4831.5	9084.6	4343.1	1267.6	966.3	1049.4	1139.5	1215.7	1250.3	1253.8
65°	3363.0	4675.6	7432.5	2147.3	775.8	852.0	955.9	1049.4	1118.7	1146.4	1153.3
67.5°	3158.6	4235.8	5094.7	890.1	682.3	768.9	869.3	959.4	1018.2	1039.0	1042.5
70°	2687.6	3546.5	2961.2	592.2	616.5	706.5	786.2	855.5	893.6	904.0	900.5
72.5°	2098.8	2808.8	1496.2	536.8	571.5	620.0	665.0	703.1	723.9	734.2	734.2
75°	1537.8	2053.8	703.1	474.5	426.0	467.6	512.6	536.8	543.8	547.2	547.2
77.5°	1032.1	1416.5	419.1	367.1	329.0	363.7	381.0	370.6	363.7	370.6	370.6
80°	623.4	872.8	367.1	266.7	252.8	256.3	242.4	242.4	256.3	263.2	259.8
82.5°	336.0	495.3	322.1	194.0	169.7	155.9	152.4	145.5	138.5	135.1	135.1
85°	155.9	252.8	207.8	117.8	90.0	65.8	52.0	38.1	34.6	27.7	27.7
87.5°	62.3	97.0	62.3	38.1	20.8	13.9	10.4	6.9	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)