

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: P685304

Luminaire Tested: **8CZL-10-UNV-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685304
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

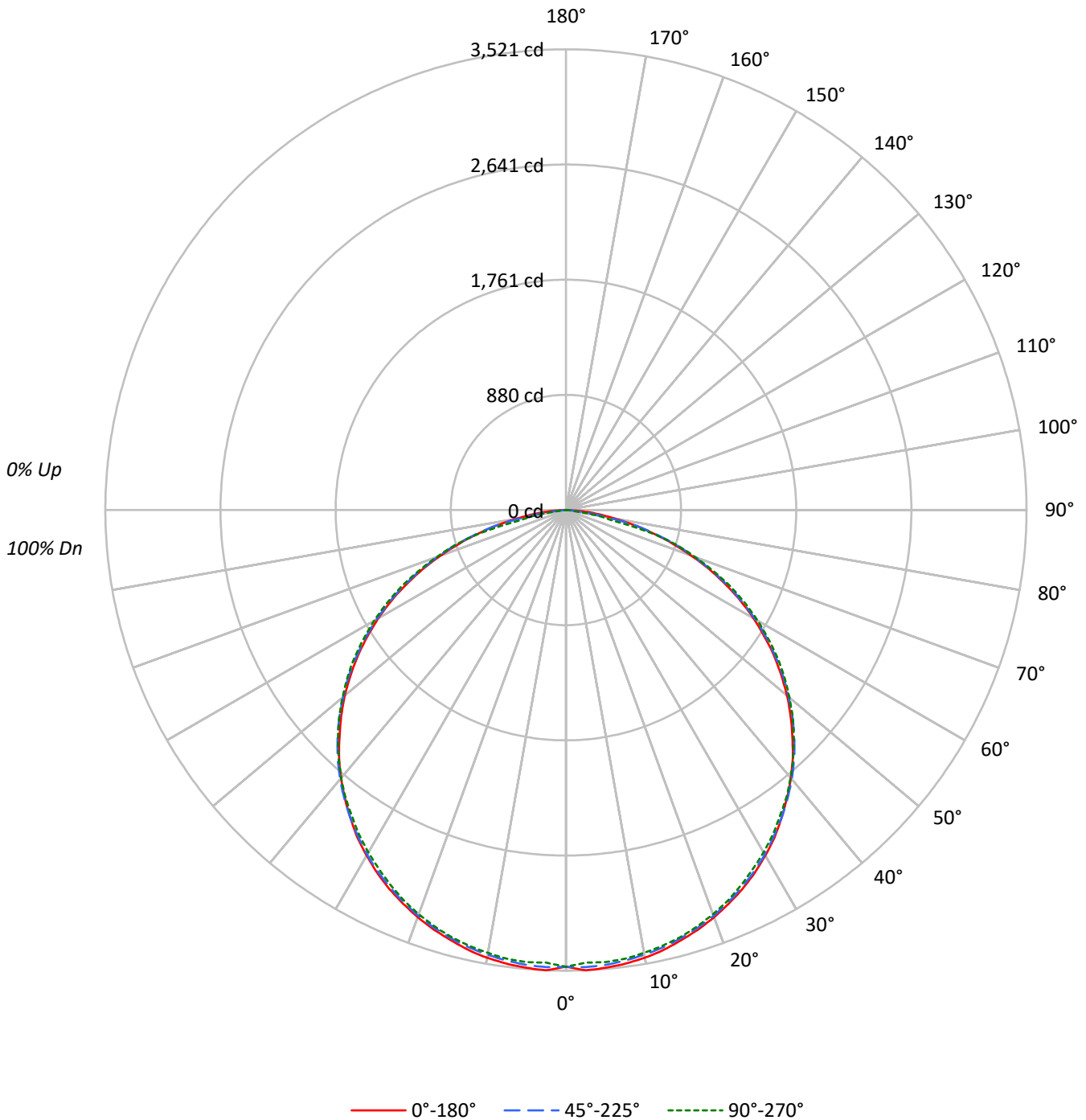
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10354.5 lumens
Efficiency: N/A
Efficacy: 164.4 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): 63
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°	5636	5636	5636
5°	5692	5656	5621
10°	5697	5658	5634
15°	5689	5666	5648
20°	5690	5670	5648
25°	5692	5669	5640
30°	5684	5669	5633
35°	5664	5664	5624
40°	5637	5660	5633
45°	5589	5638	5626
50°	5542	5582	5601
55°	5468	5507	5561
60°	5349	5397	5462
65°	5150	5223	5312
70°	4816	4912	4957
75°	4334	4414	4188
80°	3621	2947	2295
85°	2699	710	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	3.2
10°-20°	954.7	9.2
20°-30°	1462.0	14.1
30°-40°	1790.0	17.3
40°-50°	1893.7	18.3
50°-60°	1746.2	16.9
60°-70°	1347.1	13.0
70°-80°	719.4	6.9
80°-90°	110.1	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°	2747.9	26.5
0°-40°	4537.9	43.8
0°-60°	8177.9	79.0
0°-90°	10354.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10354.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3512	3470	3490	3475	3468	334
15°	3403	3367	3390	3378	3379	962
25°	3195	3162	3182	3159	3166	1473
35°	2874	2856	2874	2849	2853	1798
45°	2448	2447	2469	2452	2464	1890
55°	1943	1940	1956	1968	1976	1733
65°	1348	1348	1367	1378	1390	1331
75°	695	694	708	713	671	735
85°	146	104	38	16	14	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3521.4	3479.9	3496.9	3484.1	3462.9
5°	3511.8	3470.3	3489.5	3474.6	3468.2
7.5°	3496.9	3454.4	3473.5	3461.8	3459.7
10°	3474.6	3431.0	3451.2	3438.4	3436.3
12.5°	3444.8	3402.2	3424.6	3409.7	3411.8
15°	3403.3	3367.1	3389.5	3377.8	3378.8
17.5°	3361.8	3324.6	3348.0	3336.3	3337.3
20°	3311.8	3275.6	3300.1	3282.0	3287.3
22.5°	3255.4	3223.5	3244.8	3221.4	3232.0
25°	3194.8	3161.8	3182.0	3158.6	3166.1
27.5°	3125.6	3094.8	3115.0	3090.5	3093.7
30°	3049.0	3021.4	3040.5	3016.0	3021.4
32.5°	2967.1	2942.6	2957.5	2935.2	2942.6
35°	2873.5	2856.5	2873.5	2849.0	2853.3
37.5°	2775.6	2758.6	2782.0	2760.7	2768.2
40°	2674.5	2658.6	2685.2	2663.9	2672.4
42.5°	2567.1	2555.4	2582.0	2560.7	2571.4
45°	2447.9	2446.9	2469.2	2452.2	2463.9
47.5°	2329.9	2327.7	2350.1	2338.4	2352.2
50°	2206.4	2204.3	2222.4	2221.3	2229.9
52.5°	2074.5	2077.7	2094.7	2097.9	2107.5
55°	1942.6	1940.5	1956.4	1968.1	1975.6
57.5°	1799.0	1803.2	1816.0	1829.8	1835.2
60°	1656.4	1654.3	1671.3	1683.0	1691.5
62.5°	1505.4	1505.4	1519.2	1536.2	1544.7
65°	1347.9	1347.9	1367.1	1377.7	1390.5
67.5°	1187.3	1184.1	1201.1	1224.5	1222.4
70°	1020.2	1021.3	1040.5	1052.2	1050.0
72.5°	854.3	857.5	877.7	883.0	888.3
75°	694.7	693.6	707.5	712.8	671.3
77.5°	536.2	537.3	545.8	400.0	351.1
80°	389.4	391.5	317.0	246.8	246.8
82.5°	257.5	253.2	162.8	95.7	70.2
85°	145.7	104.3	38.3	16.0	13.8
87.5°	59.6	19.1	10.6	7.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)