

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: P685508

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685508
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-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

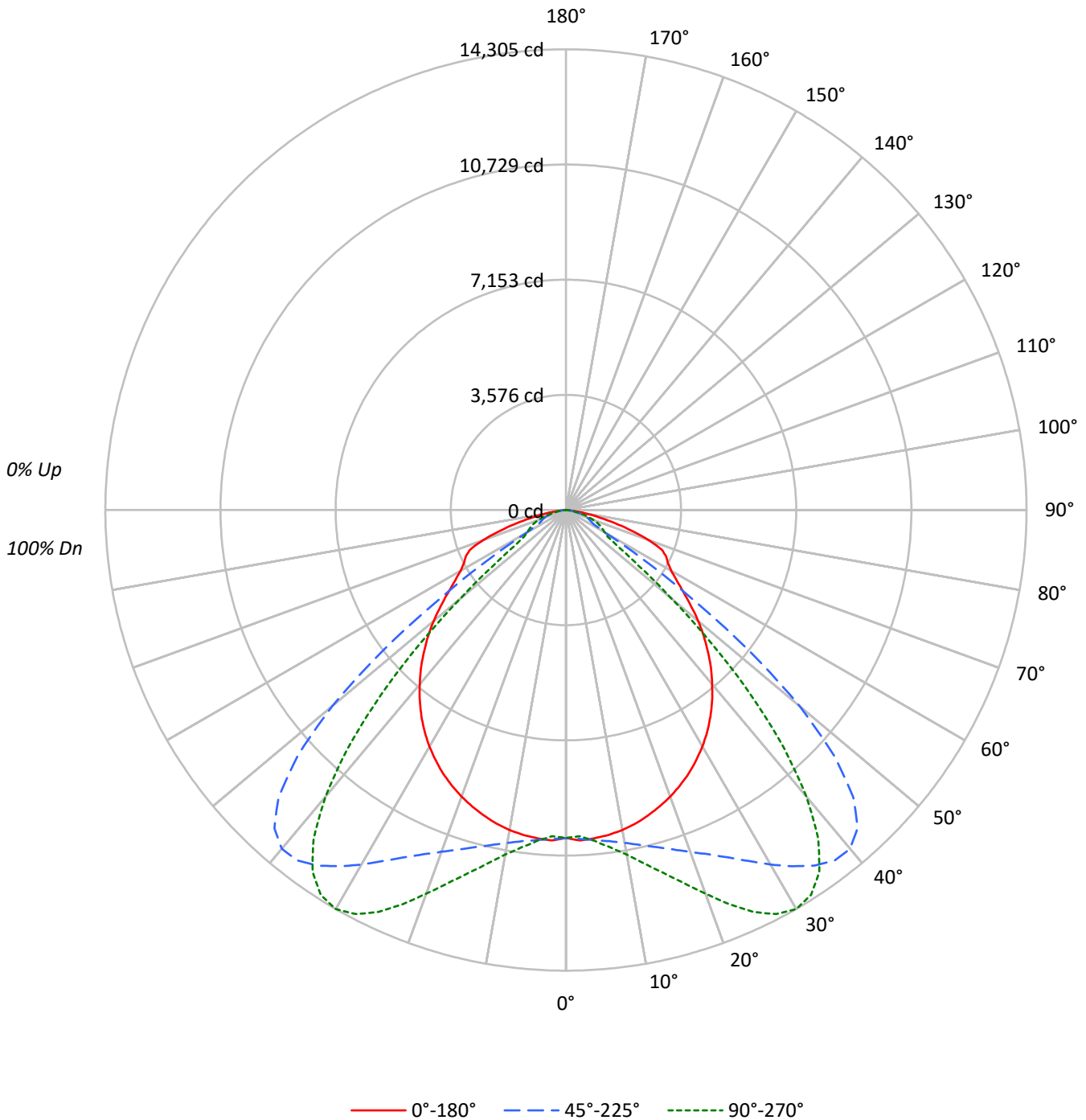
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32560.7 lumens
Efficiency: N/A
Efficacy: 158.1 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°	16438	16438	16438
5°	16581	16667	16719
10°	16541	17202	17806
15°	16420	18112	19491
20°	16276	19403	21775
25°	16081	21202	24526
30°	15806	23693	26669
35°	15420	26556	27037
40°	14885	28934	24495
45°	14242	28824	18591
50°	13471	23821	10715
55°	12556	13104	5511
60°	12186	4573	4492
65°	13132	3327	4504
70°	12968	3409	4345
75°	9805	2981	3489
80°	5925	2436	2469
85°	2951	1247	524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.3	3.0
10°-20°	3063.9	9.4
20°-30°	5382.2	16.5
30°-40°	7477.3	23.0
40°-50°	7582.9	23.3
50°-60°	4866.2	14.9
60°-70°	2276.0	7.0
70°-80°	789.2	2.4
80°-90°	137.6	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°	9431.5	29.0
0°-40°	16908.7	51.9
0°-60°	29357.8	90.2
0°-90°	32560.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32560.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10181	10181	10181	10181	10181	
5°	10230	10158	10284	10316	10315	972
15°	9823	10057	10836	11417	11660	2772
25°	9027	9952	11901	13294	13767	4155
35°	7823	10036	13473	13937	13717	4886
45°	6237	10743	12623	9415	8142	4808
55°	4460	11096	4655	2241	1958	4026
65°	3437	3545	871	1090	1179	3344
75°	1572	543	478	550	559	1701
85°	159	143	67	38	28	241
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°	10180.8	10180.8	10180.8	10180.8	10180.8	10180.8	10180.8	10180.8	10180.8	10180.8	10180.8
2.5°	10269.3	10237.5	10184.4	10163.1	10173.7	10226.8	10244.5	10205.6	10195.0	10166.7	10138.3
5°	10230.4	10202.1	10163.1	10156.0	10195.0	10283.5	10322.4	10311.8	10329.5	10333.0	10315.3
7.5°	10173.7	10149.0	10117.1	10149.0	10230.4	10372.0	10460.5	10488.8	10552.5	10566.7	10563.1
10°	10088.8	10067.5	10056.9	10138.3	10279.9	10492.3	10648.1	10726.0	10818.0	10849.9	10860.5
12.5°	9975.5	9954.3	9982.6	10124.2	10347.2	10651.6	10881.7	11019.8	11150.8	11218.0	11239.3
15°	9823.3	9816.2	9887.0	10113.6	10432.1	10835.7	11154.3	11370.2	11557.8	11632.2	11660.5
17.5°	9656.9	9660.4	9787.9	10110.0	10534.8	11051.6	11458.7	11766.7	11996.8	12103.0	12134.9
20°	9472.8	9483.5	9674.6	10106.5	10662.2	11292.4	11795.0	12198.6	12485.3	12626.9	12672.9
22.5°	9256.9	9278.1	9550.7	10110.0	10796.8	11568.5	12191.5	12672.9	13016.3	13186.2	13242.8
25°	9026.8	9058.7	9423.3	10127.7	10966.7	11901.2	12644.6	13207.4	13554.4	13703.0	13766.8
27.5°	8761.3	8814.4	9285.2	10152.5	11168.5	12287.1	13108.3	13649.9	13972.1	14085.3	14142.0
30°	8478.1	8538.3	9150.7	10202.1	11430.4	12708.3	13536.7	13993.3	14209.2	14273.0	14304.8
32.5°	8166.6	8265.7	9016.2	10283.5	11738.4	13115.4	13851.7	14124.3	14177.4	14156.1	14166.8
35°	7823.2	7929.4	8888.7	10418.0	12088.8	13472.9	13975.6	13975.6	13819.9	13724.3	13717.2
37.5°	7458.6	7593.1	8761.3	10573.7	12495.9	13710.1	13841.1	13490.6	13111.9	12906.6	12874.7
40°	7062.1	7242.7	8672.8	10786.1	12864.1	13727.8	13359.7	12637.5	11993.3	11660.5	11621.6
42.5°	6669.2	6892.2	8633.9	11062.3	13140.2	13402.1	12453.4	11338.4	10464.0	10071.1	10028.6
45°	6237.3	6531.2	8648.0	11441.0	13214.5	12623.4	11104.7	9660.4	8679.9	8184.3	8141.8
47.5°	5809.0	6173.6	8683.4	11869.4	12888.9	11303.0	9310.0	7639.2	6665.7	6145.3	6138.2
50°	5363.0	5837.3	8768.4	12219.8	12007.4	9483.5	7104.6	5472.7	4693.9	4297.5	4265.6
52.5°	4899.3	5543.5	8952.5	12283.5	10439.2	7147.1	4821.4	3653.2	3147.0	2895.7	2846.1
55°	4460.3	5295.7	9253.4	11710.1	8184.3	4655.0	3037.3	2304.5	2049.6	1947.0	1957.6
57.5°	4081.5	5111.6	9603.8	10212.7	5313.4	2739.9	1759.3	1532.8	1525.7	1536.3	1539.9
60°	3773.6	4998.4	9759.6	7660.4	2916.9	1416.0	1228.4	1277.9	1345.2	1384.1	1391.2
62.5°	3571.8	4938.2	9285.2	4439.1	1295.6	987.6	1072.6	1164.6	1242.5	1277.9	1281.5
65°	3437.3	4778.9	7596.7	2194.8	792.9	870.8	977.0	1072.6	1143.4	1171.7	1178.8
67.5°	3228.4	4329.3	5207.2	909.8	697.4	785.9	888.5	980.6	1040.7	1062.0	1065.5
70°	2747.0	3624.9	3026.6	605.3	630.1	722.1	803.6	874.4	913.3	923.9	920.4
72.5°	2145.2	2870.9	1529.2	548.7	584.1	633.6	679.7	718.6	739.8	750.5	750.5
75°	1571.7	2099.2	718.6	485.0	435.4	477.9	523.9	548.7	555.8	559.3	559.3
77.5°	1054.9	1447.8	428.3	375.2	336.3	371.7	389.4	378.8	371.7	378.8	378.8
80°	637.2	892.1	375.2	272.6	258.4	262.0	247.8	247.8	262.0	269.0	265.5
82.5°	343.4	506.2	329.2	198.2	173.5	159.3	155.8	148.7	141.6	138.1	138.1
85°	159.3	258.4	212.4	120.4	92.0	67.3	53.1	38.9	35.4	28.3	28.3
87.5°	63.7	99.1	63.7	38.9	21.2	14.2	10.6	7.1	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)