

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: P685558

Luminaire Tested: **8CZL-32-UNV-FL-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685558
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-FL-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @80 CRI and 4000K
Light Source: (1176) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

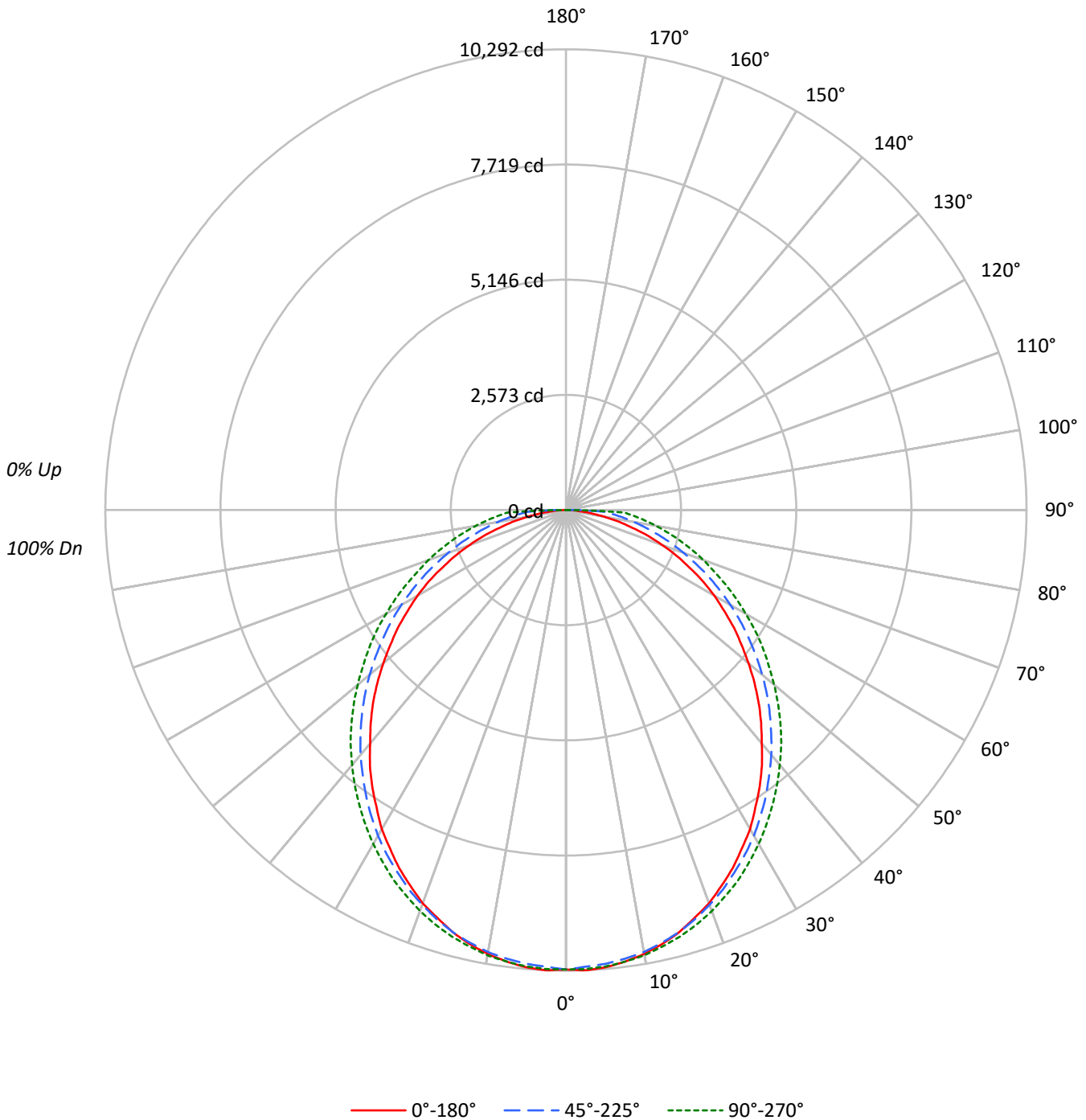
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28907.3 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 206
Input Voltage (V): 120
Input Current (A_{in}): 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	100				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82				82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68				68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57				57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42				42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37				37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16570	16570	16570
5°	16602	16379	16442
10°	16479	16215	16276
15°	16281	15982	16056
20°	16007	15683	15805
25°	15642	15333	15519
30°	15252	14985	15183
35°	14768	14557	14822
40°	14225	14126	14456
45°	13767	13647	14075
50°	13212	13152	13629
55°	12704	12612	13228
60°	12146	12074	12768
65°	11401	11497	12365
70°	10537	10858	12122
75°	9254	10318	11981
80°	7604	9969	12141
85°	5102	10197	13153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.8	3.4
10°-20°	2762.2	9.6
20°-30°	4125.6	14.3
30°-40°	4879.3	16.9
40°-50°	4971.6	17.2
50°-60°	4455.0	15.4
60°-70°	3469.9	12.0
70°-80°	2246.5	7.8
80°-90°	1026.6	3.6
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°	7858.5	27.2
0°-40°	12737.8	44.1
0°-60°	22164.4	76.7
0°-90°	28907.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28907.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10262	10262	10262	10262	10262	
5°	10253	10235	10175	10235	10233	972
15°	9767	9767	9761	9853	9863	2751
25°	8823	8854	8920	9078	9118	4060
35°	7547	7619	7789	8000	8046	4716
45°	6092	6201	6443	6689	6781	4694
55°	4580	4709	4980	5267	5370	4089
65°	3051	3184	3513	3808	3931	3030
75°	1541	1738	2136	2491	2637	1653
85°	308	595	1042	1418	1522	395
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10262.5	10262.5	10262.5	10262.5	10262.5
2.5°	10291.8	10274.2	10211.8	10266.4	10264.5
5°	10252.8	10235.2	10174.7	10235.2	10233.3
7.5°	10172.8	10166.9	10112.3	10178.6	10172.8
10°	10069.4	10061.6	10026.5	10092.8	10102.6
12.5°	9932.8	9928.9	9901.6	9979.7	9985.5
15°	9767.0	9767.0	9761.2	9852.9	9862.6
17.5°	9554.4	9581.7	9587.6	9687.1	9708.5
20°	9351.5	9359.3	9386.7	9507.6	9533.0
22.5°	9084.3	9117.5	9172.1	9304.7	9326.2
25°	8822.9	8854.1	8920.4	9078.5	9117.5
27.5°	8518.6	8579.1	8670.8	8828.8	8867.8
30°	8229.9	8280.6	8399.6	8575.2	8614.2
32.5°	7876.8	7962.7	8099.2	8284.5	8337.2
35°	7547.2	7619.3	7789.1	7999.7	8046.5
37.5°	7194.1	7279.9	7459.4	7683.7	7748.1
40°	6807.9	6932.7	7141.4	7365.8	7434.0
42.5°	6454.8	6569.9	6790.3	7043.9	7121.9
45°	6092.0	6201.2	6443.1	6688.9	6780.6
47.5°	5713.5	5826.7	6090.0	6351.4	6433.3
50°	5325.3	5459.9	5723.3	5998.3	6072.5
52.5°	4939.1	5073.7	5352.7	5627.7	5711.6
55°	4580.2	4708.9	4980.1	5266.8	5370.2
57.5°	4190.1	4326.6	4625.1	4902.1	5013.2
60°	3829.2	3928.7	4244.7	4531.4	4638.7
62.5°	3456.6	3563.9	3872.1	4166.6	4293.4
65°	3050.9	3183.5	3513.2	3807.7	3930.6
67.5°	2680.2	2807.0	3146.4	3478.1	3577.5
70°	2295.9	2442.2	2793.4	3132.8	3273.2
72.5°	1929.2	2081.4	2467.6	2805.1	2947.5
75°	1541.0	1738.1	2136.0	2491.0	2637.3
77.5°	1221.1	1416.2	1823.9	2194.5	2335.0
80°	866.1	1106.0	1546.9	1921.4	2046.3
82.5°	577.4	821.2	1283.5	1648.3	1782.9
85°	308.2	595.0	1041.7	1418.1	1521.5
87.5°	134.6	415.5	844.6	1180.2	1303.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)