

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: P685597

Luminaire Tested: **8CZL-24-UNV-FL-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685597
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-FL-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

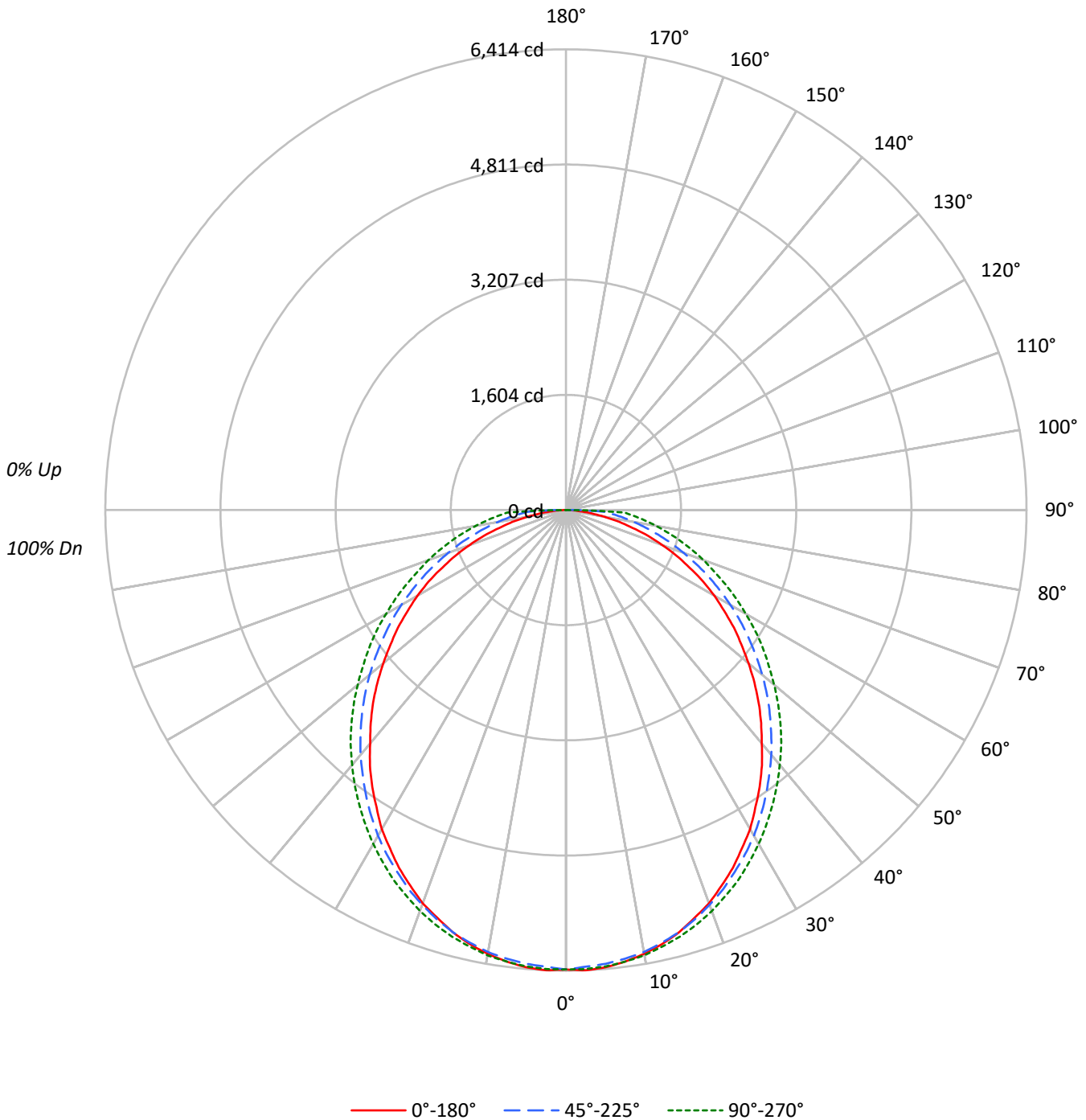
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18015.0 lumens
Efficiency: N/A
Efficacy: 117.0 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): 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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	59	59	59	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	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	43	34	29	55	42	34	29	41	34	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	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10326	10326	10326
5°	10346	10207	10247
10°	10269	10105	10143
15°	10146	9960	10006
20°	9976	9773	9849
25°	9748	9556	9672
30°	9505	9338	9462
35°	9204	9072	9237
40°	8865	8804	9009
45°	8579	8504	8772
50°	8234	8197	8494
55°	7917	7860	8244
60°	7569	7525	7957
65°	7105	7165	7706
70°	6567	6766	7554
75°	5767	6430	7467
80°	4739	6212	7566
85°	3180	6355	8197



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.0	3.4
10°-20°	1721.4	9.6
20°-30°	2571.0	14.3
30°-40°	3040.8	16.9
40°-50°	3098.3	17.2
50°-60°	2776.3	15.4
60°-70°	2162.4	12.0
70°-80°	1400.0	7.8
80°-90°	639.8	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°	4897.4	27.2
0°-40°	7938.2	44.1
0°-60°	13812.8	76.7
0°-90°	18015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6396	6396	6396	6396	6396	
5°	6390	6379	6341	6379	6377	606
15°	6087	6087	6083	6140	6146	1714
25°	5498	5518	5559	5658	5682	2530
35°	4703	4748	4854	4985	5015	2939
45°	3796	3865	4015	4168	4226	2925
55°	2854	2935	3104	3282	3347	2548
65°	1901	1984	2189	2373	2450	1888
75°	960	1083	1331	1552	1644	1030
85°	192	371	649	884	948	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6395.6	6395.6	6395.6	6395.6	6395.6
2.5°	6413.8	6402.9	6364.0	6398.0	6396.8
5°	6389.5	6378.6	6340.9	6378.6	6377.4
7.5°	6339.7	6336.0	6302.0	6343.3	6339.7
10°	6275.2	6270.4	6248.5	6289.8	6295.9
12.5°	6190.2	6187.7	6170.7	6219.3	6223.0
15°	6086.8	6086.8	6083.2	6140.3	6146.4
17.5°	5954.3	5971.3	5975.0	6037.0	6050.3
20°	5827.9	5832.7	5849.8	5925.1	5940.9
22.5°	5661.3	5682.0	5716.0	5798.7	5812.1
25°	5498.4	5517.9	5559.2	5657.7	5682.0
27.5°	5308.8	5346.5	5403.6	5502.1	5526.4
30°	5128.9	5160.5	5234.6	5344.1	5368.4
32.5°	4908.8	4962.3	5047.4	5162.9	5195.7
35°	4703.4	4748.4	4854.1	4985.4	5014.6
37.5°	4483.4	4536.9	4648.7	4788.5	4828.6
40°	4242.7	4320.5	4450.5	4590.3	4632.9
42.5°	4022.6	4094.3	4231.7	4389.8	4438.4
45°	3796.5	3864.6	4015.3	4168.5	4225.6
47.5°	3560.7	3631.2	3795.3	3958.2	4009.3
50°	3318.8	3402.6	3566.8	3738.2	3784.4
52.5°	3078.1	3161.9	3335.8	3507.2	3559.5
55°	2854.4	2934.6	3103.6	3282.3	3346.7
57.5°	2611.2	2696.3	2882.3	3055.0	3124.3
60°	2386.3	2448.3	2645.3	2824.0	2890.8
62.5°	2154.2	2221.0	2413.1	2596.7	2675.7
65°	1901.3	1984.0	2189.4	2373.0	2449.6
67.5°	1670.3	1749.3	1960.9	2167.5	2229.5
70°	1430.8	1522.0	1740.8	1952.4	2039.9
72.5°	1202.3	1297.1	1537.8	1748.1	1836.9
75°	960.4	1083.2	1331.1	1552.4	1643.6
77.5°	761.0	882.6	1136.6	1367.6	1455.1
80°	539.8	689.3	964.0	1197.4	1275.2
82.5°	359.8	511.8	799.9	1027.2	1111.1
85°	192.1	370.8	649.2	883.8	948.2
87.5°	83.9	258.9	526.4	735.5	812.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)