

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: P685587

Luminaire Tested: **8CZL-24-UNV-FL-L940-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685587
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-L940-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 4000K
Light Source: (1176) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

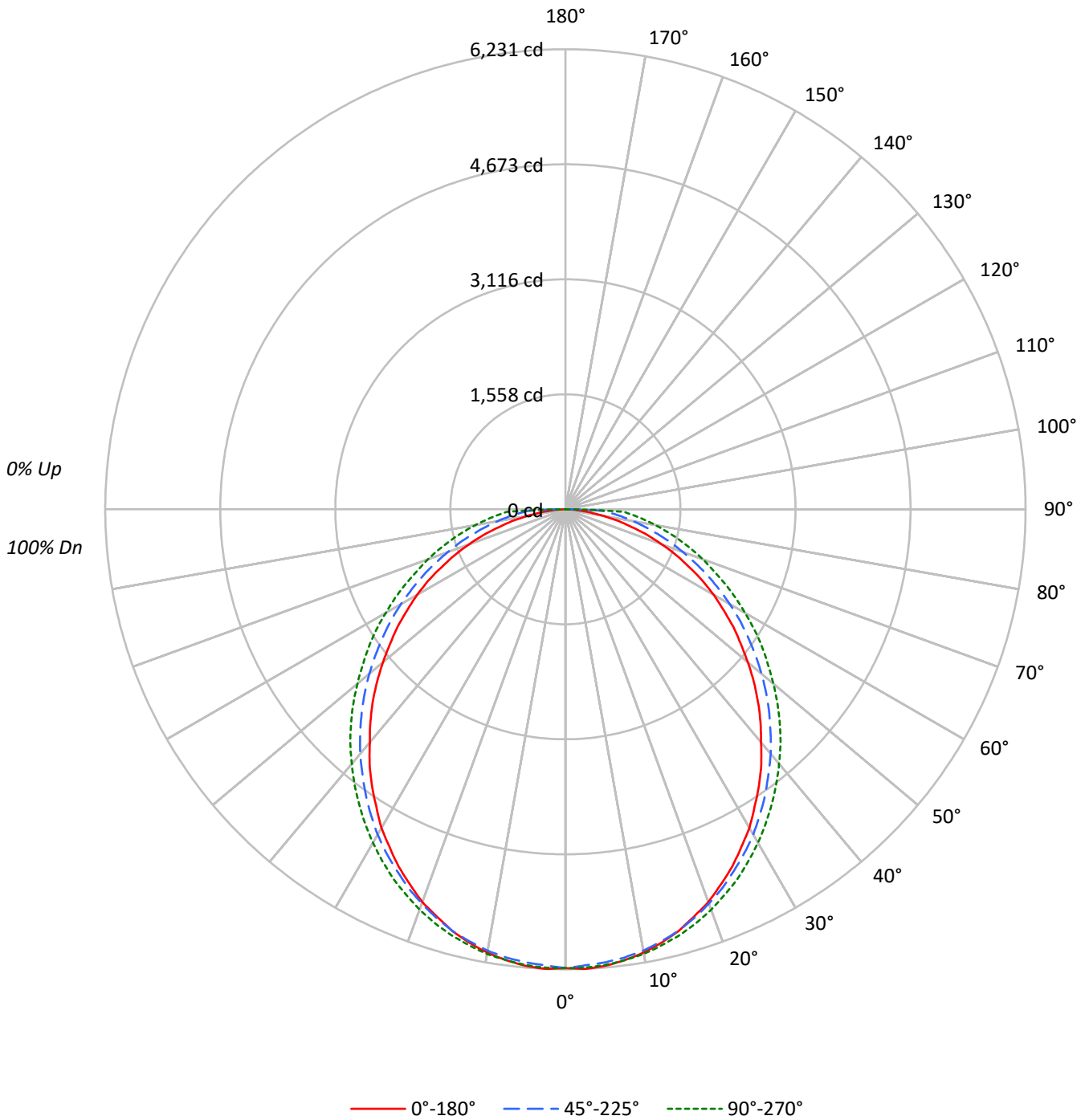
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17502.1 lumens
Efficiency: N/A
Efficacy: 113.7 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 (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	100	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82	82	82	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68	68	68	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57	57	57	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	42	42	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37	37	37	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10032	10032	10032
5°	10052	9917	9955
10°	9977	9818	9855
15°	9857	9676	9721
20°	9692	9495	9569
25°	9471	9284	9396
30°	9234	9072	9193
35°	8942	8813	8974
40°	8612	8553	8752
45°	8335	8262	8522
50°	8000	7963	8252
55°	7692	7636	8009
60°	7354	7310	7730
65°	6903	6961	7486
70°	6380	6574	7339
75°	5603	6247	7254
80°	4604	6036	7351
85°	3089	6174	7963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.8	3.4
10°-20°	1672.4	9.6
20°-30°	2497.8	14.3
30°-40°	2954.2	16.9
40°-50°	3010.1	17.2
50°-60°	2697.3	15.4
60°-70°	2100.9	12.0
70°-80°	1360.1	7.8
80°-90°	621.5	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°	4758.0	27.2
0°-40°	7712.2	44.1
0°-60°	13419.6	76.7
0°-90°	17502.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17502.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6214	6214	6214	6214	6214	
5°	6208	6197	6160	6197	6196	589
15°	5914	5914	5910	5966	5971	1665
25°	5342	5361	5401	5497	5520	2458
35°	4570	4613	4716	4844	4872	2855
45°	3688	3755	3901	4050	4105	2842
55°	2773	2851	3015	3189	3251	2476
65°	1847	1928	2127	2305	2380	1835
75°	933	1052	1293	1508	1597	1001
85°	187	360	631	859	921	239
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6213.5	6213.5	6213.5	6213.5	6213.5
2.5°	6231.2	6220.6	6182.8	6215.9	6214.7
5°	6207.6	6197.0	6160.4	6197.0	6195.8
7.5°	6159.2	6155.6	6122.6	6162.7	6159.2
10°	6096.6	6091.9	6070.6	6110.7	6116.7
12.5°	6013.9	6011.5	5995.0	6042.2	6045.8
15°	5913.5	5913.5	5910.0	5965.5	5971.4
17.5°	5784.8	5801.3	5804.9	5865.1	5878.1
20°	5662.0	5666.7	5683.2	5756.4	5771.8
22.5°	5500.1	5520.2	5553.3	5633.6	5646.6
25°	5341.9	5360.8	5400.9	5496.6	5520.2
27.5°	5157.6	5194.3	5249.8	5345.4	5369.1
30°	4982.8	5013.6	5085.6	5191.9	5215.5
32.5°	4769.1	4821.0	4903.7	5015.9	5047.8
35°	4569.5	4613.2	4715.9	4843.5	4871.8
37.5°	4355.7	4407.7	4516.3	4652.2	4691.1
40°	4121.9	4197.4	4323.8	4459.6	4501.0
42.5°	3908.1	3977.8	4111.2	4264.8	4312.0
45°	3688.4	3754.6	3901.0	4049.8	4105.3
47.5°	3459.3	3527.8	3687.2	3845.5	3895.1
50°	3224.3	3305.8	3465.2	3631.7	3676.6
52.5°	2990.4	3071.9	3240.8	3407.3	3458.1
55°	2773.1	2851.1	3015.2	3188.8	3251.4
57.5°	2536.9	2619.6	2800.3	2968.0	3035.3
60°	2318.4	2378.6	2570.0	2743.6	2808.5
62.5°	2092.8	2157.8	2344.4	2522.7	2599.5
65°	1847.2	1927.5	2127.1	2305.4	2379.8
67.5°	1622.8	1699.5	1905.0	2105.8	2166.0
70°	1390.1	1478.7	1691.3	1896.8	1981.8
72.5°	1168.1	1260.2	1494.0	1698.3	1784.6
75°	933.0	1052.3	1293.2	1508.2	1596.8
77.5°	739.3	857.4	1104.3	1328.7	1413.7
80°	524.4	669.7	936.6	1163.3	1238.9
82.5°	349.6	497.2	777.1	998.0	1079.5
85°	186.6	360.2	630.7	858.6	921.2
87.5°	81.5	251.6	511.4	714.5	788.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)