

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: P685588

Luminaire Tested: **8CZL-32-UNV-FL-L940-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685588
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-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

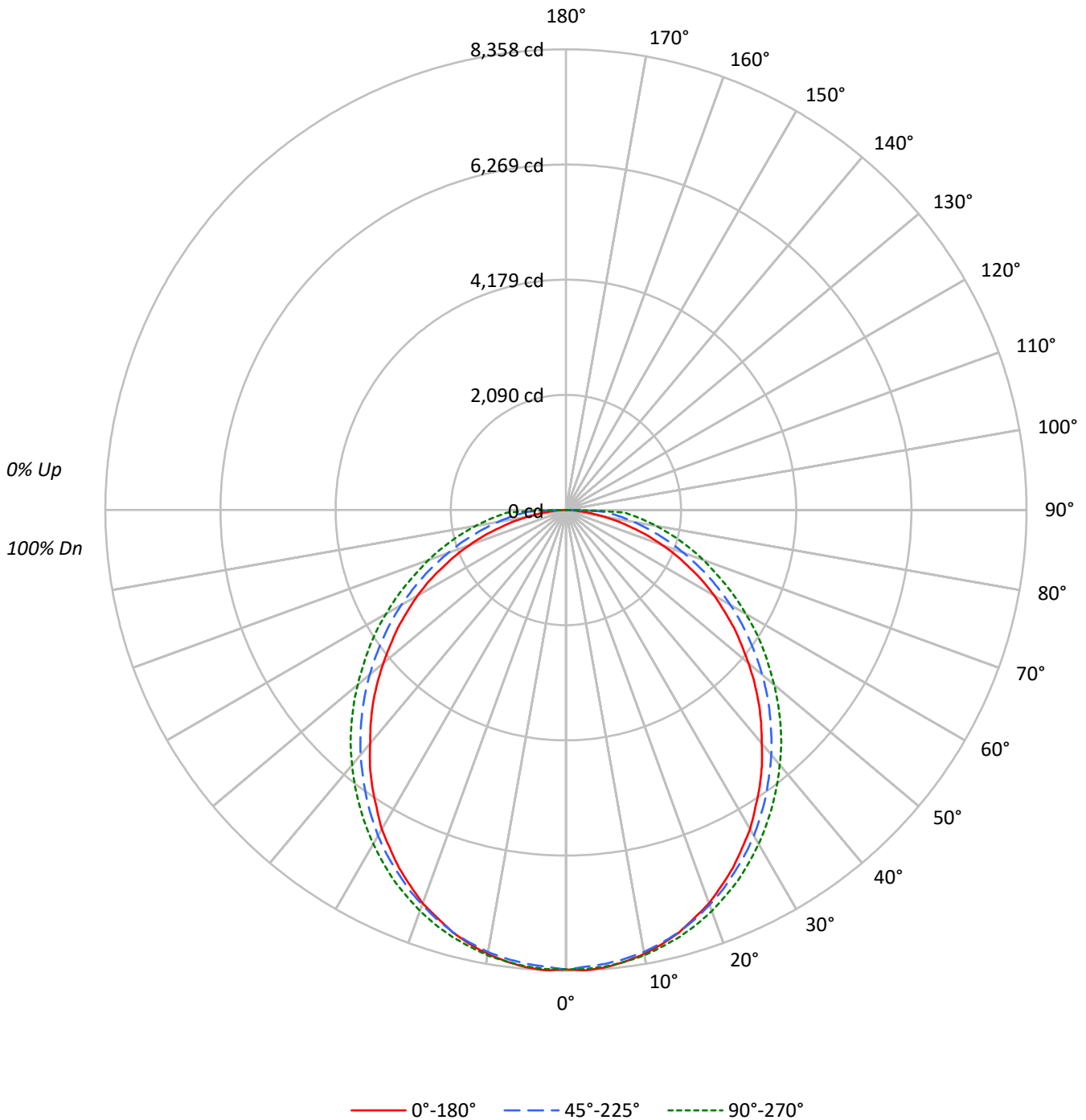
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23475.6 lumens
Efficiency: N/A
Efficacy: 114.0 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): 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	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°	13456	13456	13456
5°	13483	13301	13352
10°	13382	13168	13218
15°	13222	12979	13039
20°	13000	12736	12835
25°	12703	12452	12603
30°	12386	12169	12331
35°	11993	11822	12037
40°	11552	11472	11740
45°	11180	11082	11430
50°	10730	10681	11068
55°	10317	10242	10742
60°	9864	9805	10369
65°	9259	9336	10042
70°	8557	8818	9844
75°	7515	8379	9730
80°	6175	8096	9860
85°	4144	8281	10681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.4	3.4
10°-20°	2243.2	9.6
20°-30°	3350.4	14.3
30°-40°	3962.4	16.9
40°-50°	4037.5	17.2
50°-60°	3617.9	15.4
60°-70°	2817.9	12.0
70°-80°	1824.4	7.8
80°-90°	833.7	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°	6381.9	27.2
0°-40°	10344.4	44.1
0°-60°	17999.7	76.7
0°-90°	23475.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23475.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8334	8334	8334	8334	8334	
5°	8326	8312	8263	8312	8310	790
15°	7932	7932	7927	8002	8009	2234
25°	7165	7190	7244	7373	7404	3297
35°	6129	6188	6326	6497	6535	3830
45°	4947	5036	5232	5432	5506	3812
55°	3720	3824	4044	4277	4361	3320
65°	2478	2585	2853	3092	3192	2461
75°	1252	1412	1735	2023	2142	1343
85°	250	483	846	1152	1236	321
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8334.2	8334.2	8334.2	8334.2	8334.2
2.5°	8357.9	8343.7	8293.0	8337.4	8335.8
5°	8326.3	8312.0	8262.9	8312.0	8310.4
7.5°	8261.3	8256.6	8212.2	8266.1	8261.3
10°	8177.4	8171.0	8142.5	8196.4	8204.3
12.5°	8066.5	8063.3	8041.1	8104.5	8109.2
15°	7931.8	7931.8	7927.1	8001.5	8009.4
17.5°	7759.1	7781.3	7786.1	7866.9	7884.3
20°	7594.4	7600.7	7622.9	7721.1	7741.7
22.5°	7377.4	7404.3	7448.6	7556.4	7573.8
25°	7165.1	7190.4	7244.3	7372.6	7404.3
27.5°	6918.0	6967.1	7041.5	7169.8	7201.5
30°	6683.5	6724.7	6821.3	6963.9	6995.6
32.5°	6396.8	6466.5	6577.4	6727.9	6770.6
35°	6129.1	6187.7	6325.5	6496.6	6534.6
37.5°	5842.3	5912.0	6057.8	6239.9	6292.2
40°	5528.7	5630.1	5799.6	5981.7	6037.2
42.5°	5241.9	5335.4	5514.4	5720.3	5783.7
45°	4947.3	5036.0	5232.4	5432.0	5506.5
47.5°	4640.0	4731.8	4945.7	5158.0	5224.5
50°	4324.7	4434.0	4647.9	4871.2	4931.4
52.5°	4011.1	4120.4	4346.9	4570.3	4638.4
55°	3719.6	3824.1	4044.3	4277.2	4361.2
57.5°	3402.7	3513.6	3756.0	3981.0	4071.3
60°	3109.7	3190.5	3447.1	3680.0	3767.1
62.5°	2807.1	2894.2	3144.5	3383.7	3486.7
65°	2477.6	2585.3	2853.0	3092.3	3192.1
67.5°	2176.6	2279.6	2555.2	2824.5	2905.3
70°	1864.5	1983.3	2268.5	2544.1	2658.2
72.5°	1566.7	1690.3	2003.9	2278.0	2393.6
75°	1251.5	1411.5	1734.6	2023.0	2141.8
77.5°	991.7	1150.1	1481.2	1782.2	1896.2
80°	703.4	898.2	1256.2	1560.4	1661.8
82.5°	468.9	666.9	1042.4	1338.6	1447.9
85°	250.3	483.2	845.9	1151.7	1235.6
87.5°	109.3	337.4	685.9	958.4	1058.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)