

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: P685598

Luminaire Tested: **8CZL-32-UNV-FL-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685598
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-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

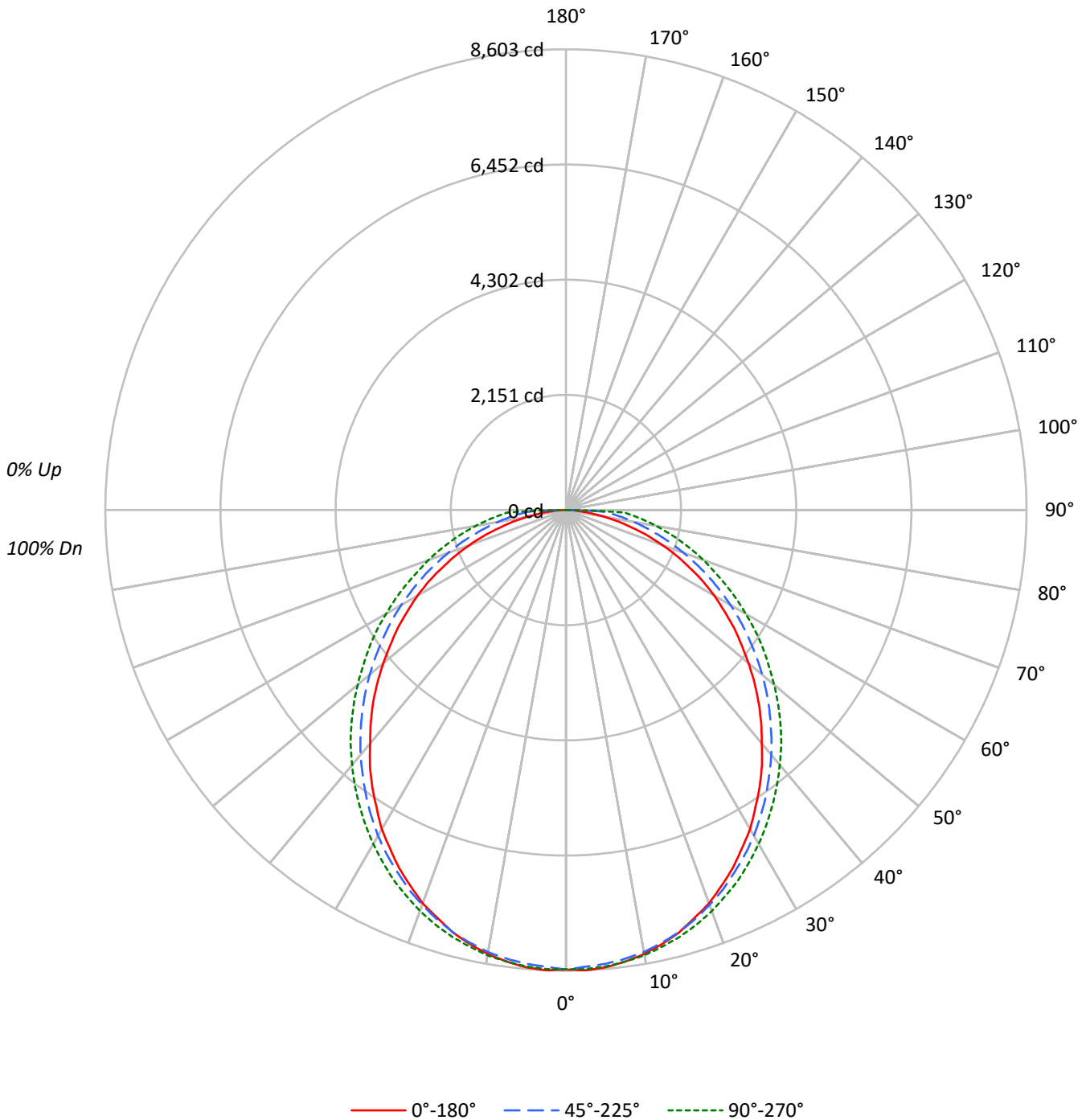
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24163.6 lumens
Efficiency: N/A
Efficacy: 117.3 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	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°	13851	13851	13851
5°	13878	13691	13744
10°	13774	13554	13605
15°	13609	13359	13421
20°	13381	13109	13211
25°	13075	12817	12972
30°	12749	12526	12692
35°	12345	12168	12390
40°	11890	11808	12084
45°	11508	11407	11765
50°	11044	10994	11393
55°	10619	10543	11057
60°	10153	10093	10673
65°	9530	9610	10336
70°	8808	9076	10133
75°	7735	8625	10015
80°	6356	8333	10149
85°	4264	8524	10994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.5	3.4
10°-20°	2309.0	9.6
20°-30°	3448.6	14.3
30°-40°	4078.6	16.9
40°-50°	4155.8	17.2
50°-60°	3723.9	15.4
60°-70°	2900.5	12.0
70°-80°	1877.8	7.8
80°-90°	858.1	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°	6569.0	27.2
0°-40°	10647.5	44.1
0°-60°	18527.2	76.7
0°-90°	24163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24163.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8578	8578	8578	8578	8578	
5°	8570	8556	8505	8556	8554	813
15°	8164	8164	8159	8236	8244	2299
25°	7375	7401	7457	7589	7621	3394
35°	6309	6369	6511	6687	6726	3942
45°	5092	5184	5386	5591	5668	3924
55°	3829	3936	4163	4402	4489	3418
65°	2550	2661	2937	3183	3286	2533
75°	1288	1453	1786	2082	2204	1382
85°	258	497	871	1185	1272	330
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8578.4	8578.4	8578.4	8578.4	8578.4
2.5°	8602.9	8588.2	8536.0	8581.7	8580.1
5°	8570.3	8555.6	8505.1	8555.6	8554.0
7.5°	8503.4	8498.5	8452.9	8508.3	8503.4
10°	8417.0	8410.5	8381.1	8436.6	8444.7
12.5°	8302.9	8299.6	8276.8	8342.0	8346.9
15°	8164.3	8164.3	8159.4	8236.0	8244.2
17.5°	7986.5	8009.4	8014.3	8097.4	8115.4
20°	7817.0	7823.5	7846.3	7947.4	7968.6
22.5°	7593.6	7621.3	7666.9	7777.8	7795.8
25°	7375.1	7401.2	7456.6	7588.7	7621.3
27.5°	7120.7	7171.3	7247.9	7380.0	7412.6
30°	6879.4	6921.8	7021.2	7168.0	7200.6
32.5°	6584.2	6656.0	6770.1	6925.0	6969.1
35°	6308.7	6369.0	6510.9	6687.0	6726.1
37.5°	6013.5	6085.3	6235.3	6422.8	6476.6
40°	5690.7	5795.0	5969.5	6157.0	6214.1
42.5°	5395.6	5491.8	5676.0	5888.0	5953.2
45°	5092.3	5183.6	5385.8	5591.2	5667.9
47.5°	4775.9	4870.5	5090.6	5309.1	5377.6
50°	4451.5	4564.0	4784.1	5014.0	5076.0
52.5°	4128.6	4241.1	4474.3	4704.2	4774.3
55°	3828.6	3936.2	4162.8	4402.5	4489.0
57.5°	3502.5	3616.6	3866.1	4097.6	4190.6
60°	3200.8	3284.0	3548.1	3787.8	3877.5
62.5°	2889.4	2979.1	3236.7	3482.9	3588.9
65°	2550.2	2661.1	2936.7	3182.9	3285.6
67.5°	2240.4	2346.4	2630.1	2907.3	2990.5
70°	1919.2	2041.5	2335.0	2618.7	2736.1
72.5°	1612.6	1739.8	2062.7	2344.8	2463.8
75°	1288.2	1452.8	1785.5	2082.2	2204.5
77.5°	1020.7	1183.8	1524.6	1834.4	1951.8
80°	724.0	924.5	1293.0	1606.1	1710.5
82.5°	482.6	686.5	1072.9	1377.8	1490.3
85°	257.6	497.3	870.7	1185.4	1271.8
87.5°	112.5	347.3	706.0	986.5	1089.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)