

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: P685358

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

Issue Date: 05/10/2023

Test Information

Test Method: LM-79-08
Report Number: P685358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

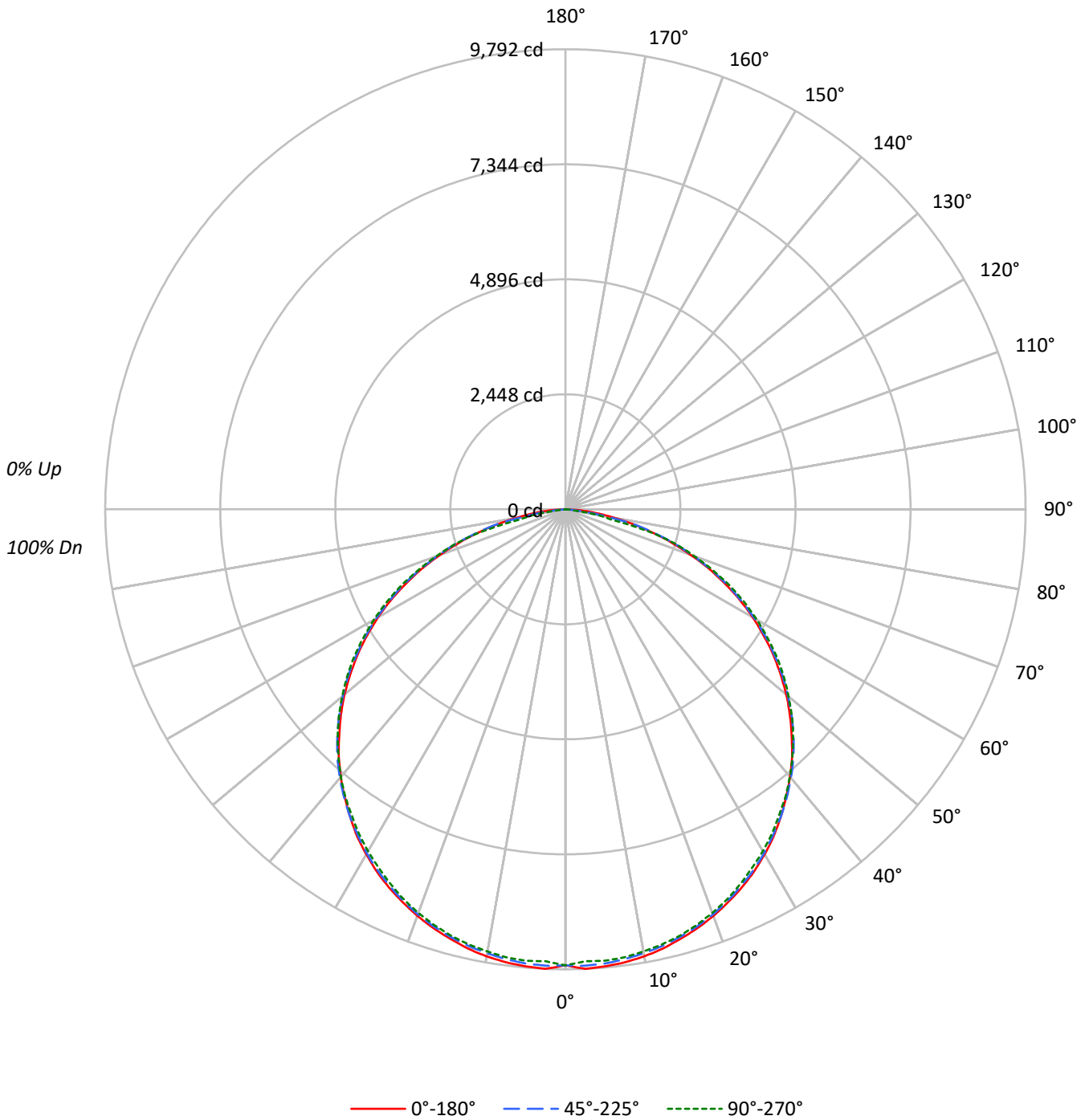
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28793.2 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 206
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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	42	34	29	55	42	34	29	41	33	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	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15672	15672	15672
5°	15827	15727	15631
10°	15841	15734	15666
15°	15819	15755	15705
20°	15824	15768	15707
25°	15827	15763	15684
30°	15807	15763	15664
35°	15750	15750	15639
40°	15675	15738	15663
45°	15543	15678	15645
50°	15412	15523	15575
55°	15206	15314	15464
60°	14874	15008	15189
65°	14320	14523	14772
70°	13393	13658	13784
75°	12051	12273	11645
80°	10067	8197	6381
85°	7508	1973	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.8	3.2
10°-20°	2654.9	9.2
20°-30°	4065.6	14.1
30°-40°	4977.6	17.3
40°-50°	5265.8	18.3
50°-60°	4855.9	16.9
60°-70°	3745.9	13.0
70°-80°	2000.6	6.9
80°-90°	306.1	1.1
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°	7641.3	26.5
0°-40°	12618.9	43.8
0°-60°	22740.6	79.0
0°-90°	28793.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28793.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9706	9706	9706	9706	9706	
5°	9765	9650	9703	9662	9644	929
15°	9464	9363	9425	9393	9396	2674
25°	8884	8792	8848	8783	8804	4095
35°	7990	7943	7990	7922	7934	5000
45°	6807	6804	6866	6819	6852	5254
55°	5402	5396	5440	5473	5494	4819
65°	3748	3748	3802	3831	3866	3701
75°	1932	1929	1967	1982	1867	2045
85°	405	290	106	44	38	497
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9706.3	9706.3	9706.3	9706.3	9706.3
2.5°	9792.1	9676.7	9724.0	9688.5	9629.4
5°	9765.4	9650.1	9703.3	9661.9	9644.2
7.5°	9724.0	9605.7	9658.9	9626.4	9620.5
10°	9661.9	9540.6	9596.8	9561.3	9555.4
12.5°	9579.1	9460.7	9522.9	9481.4	9487.4
15°	9463.7	9363.1	9425.2	9392.7	9395.7
17.5°	9348.3	9244.8	9309.9	9277.3	9280.3
20°	9209.3	9108.7	9176.7	9126.4	9141.2
22.5°	9052.5	8963.7	9022.9	8957.8	8987.4
25°	8883.9	8792.2	8848.4	8783.3	8804.0
27.5°	8691.6	8605.8	8662.0	8593.9	8602.8
30°	8478.6	8401.7	8454.9	8386.9	8401.7
32.5°	8250.8	8182.7	8224.2	8162.0	8182.7
35°	7990.4	7943.1	7990.4	7922.4	7934.2
37.5°	7718.3	7670.9	7736.0	7676.9	7697.6
40°	7437.2	7392.9	7466.8	7407.7	7431.3
42.5°	7138.4	7105.9	7179.9	7120.7	7150.3
45°	6807.1	6804.2	6866.3	6818.9	6851.5
47.5°	6478.7	6472.8	6534.9	6502.4	6540.9
50°	6135.6	6129.7	6179.9	6177.0	6200.7
52.5°	5768.7	5777.6	5824.9	5833.8	5860.4
55°	5401.9	5396.0	5440.4	5472.9	5493.6
57.5°	5002.5	5014.4	5049.9	5088.3	5103.1
60°	4606.1	4600.2	4647.5	4680.1	4703.7
62.5°	4186.0	4186.0	4224.5	4271.8	4295.5
65°	3748.2	3748.2	3801.5	3831.0	3866.5
67.5°	3301.5	3292.6	3340.0	3405.0	3399.1
70°	2837.0	2840.0	2893.2	2925.8	2919.9
72.5°	2375.5	2384.4	2440.6	2455.4	2470.2
75°	1931.8	1928.8	1967.3	1982.1	1866.7
77.5°	1491.0	1494.0	1517.6	1112.3	976.2
80°	1082.7	1088.7	881.6	686.3	686.3
82.5°	715.9	704.1	452.6	266.2	195.2
85°	405.3	289.9	106.5	44.4	38.5
87.5°	165.7	53.2	29.6	20.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)