

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: P685355

Luminaire Tested: **8CZL-14-UNV-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685355
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

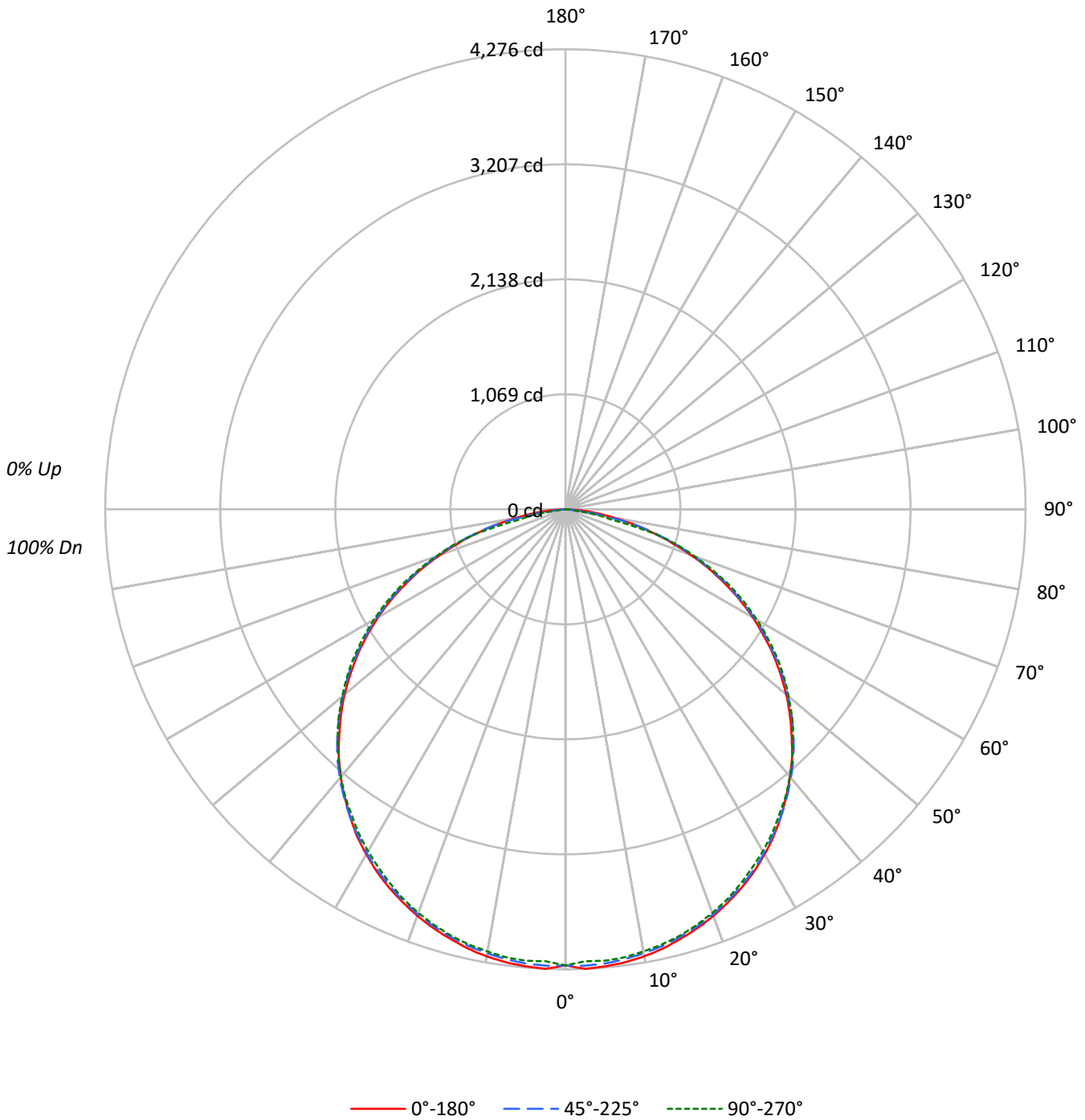
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12573.5 lumens
Efficiency: N/A
Efficacy: 141.3 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): 89
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°	6844	6844	6844
5°	6912	6868	6826
10°	6917	6871	6841
15°	6908	6880	6858
20°	6910	6885	6859
25°	6911	6884	6849
30°	6903	6883	6840
35°	6878	6878	6829
40°	6845	6872	6840
45°	6788	6846	6832
50°	6730	6779	6801
55°	6640	6687	6753
60°	6495	6554	6633
65°	6253	6342	6451
70°	5849	5964	6019
75°	5263	5359	5085
80°	4396	3580	2787
85°	3279	861	311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.1	3.2
10°-20°	1159.4	9.2
20°-30°	1775.4	14.1
30°-40°	2173.6	17.3
40°-50°	2299.5	18.3
50°-60°	2120.5	16.9
60°-70°	1635.8	13.0
70°-80°	873.6	6.9
80°-90°	133.7	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°	3336.8	26.5
0°-40°	5510.5	43.8
0°-60°	9930.4	79.0
0°-90°	12573.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12573.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4239	4239	4239	4239	4239	
5°	4264	4214	4237	4219	4211	406
15°	4133	4089	4116	4102	4103	1168
25°	3879	3839	3864	3836	3845	1788
35°	3489	3469	3489	3460	3465	2183
45°	2973	2971	2998	2978	2992	2295
55°	2359	2356	2376	2390	2399	2104
65°	1637	1637	1660	1673	1688	1616
75°	844	842	859	866	815	893
85°	177	127	46	19	17	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4238.6	4238.6	4238.6	4238.6	4238.6
2.5°	4276.0	4225.7	4246.3	4230.8	4205.0
5°	4264.4	4214.0	4237.3	4219.2	4211.4
7.5°	4246.3	4194.6	4217.9	4203.7	4201.1
10°	4219.2	4166.2	4190.8	4175.3	4172.7
12.5°	4183.0	4131.3	4158.5	4140.4	4143.0
15°	4132.6	4088.7	4115.8	4101.6	4102.9
17.5°	4082.3	4037.0	4065.5	4051.3	4052.5
20°	4021.5	3977.6	4007.3	3985.4	3991.8
22.5°	3953.1	3914.3	3940.2	3911.7	3924.7
25°	3879.4	3839.4	3863.9	3835.5	3844.6
27.5°	3795.5	3758.0	3782.5	3752.8	3756.7
30°	3702.5	3668.9	3692.1	3662.4	3668.9
32.5°	3603.0	3573.3	3591.4	3564.2	3573.3
35°	3489.3	3468.6	3489.3	3459.6	3464.8
37.5°	3370.4	3349.8	3378.2	3352.4	3361.4
40°	3247.7	3228.3	3260.6	3234.8	3245.1
42.5°	3117.2	3103.0	3135.3	3109.5	3122.4
45°	2972.6	2971.3	2998.4	2977.7	2991.9
47.5°	2829.2	2826.6	2853.7	2839.5	2856.3
50°	2679.3	2676.7	2698.7	2697.4	2707.7
52.5°	2519.1	2523.0	2543.7	2547.5	2559.2
55°	2358.9	2356.3	2375.7	2389.9	2399.0
57.5°	2184.5	2189.7	2205.2	2222.0	2228.4
60°	2011.4	2008.8	2029.5	2043.7	2054.0
62.5°	1828.0	1828.0	1844.8	1865.4	1875.8
65°	1636.8	1636.8	1660.0	1672.9	1688.5
67.5°	1441.7	1437.8	1458.5	1486.9	1484.3
70°	1238.9	1240.2	1263.4	1277.6	1275.1
72.5°	1037.4	1041.2	1065.8	1072.2	1078.7
75°	843.6	842.3	859.1	865.5	815.2
77.5°	651.1	652.4	662.7	485.7	426.3
80°	472.8	475.4	385.0	299.7	299.7
82.5°	312.6	307.5	197.7	116.3	85.3
85°	177.0	126.6	46.5	19.4	16.8
87.5°	72.3	23.3	12.9	9.0	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)