

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: P685357

Luminaire Tested: **8CZL-24-UNV-L950-CD-U**

Issue Date: 05/10/2023

Test Information

Test Method: LM-79-08
Report Number: P685357
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-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

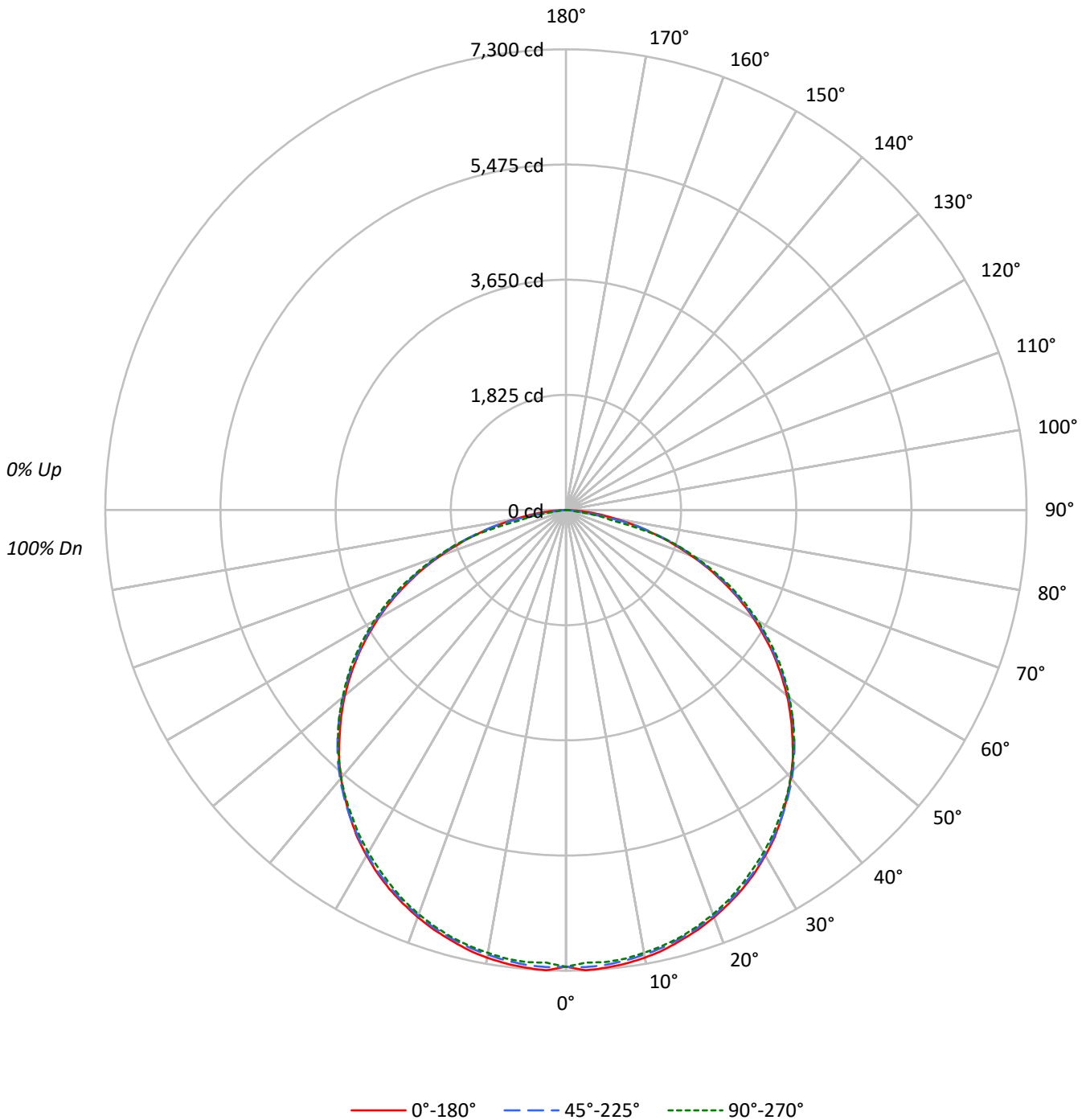
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21466.5 lumens
Efficiency: N/A
Efficacy: 139.4 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): 154
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				
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°	11684	11684	11684
5°	11800	11725	11653
10°	11810	11730	11680
15°	11794	11746	11709
20°	11797	11756	11710
25°	11799	11752	11693
30°	11785	11752	11678
35°	11742	11742	11659
40°	11687	11733	11678
45°	11588	11689	11664
50°	11490	11573	11612
55°	11337	11417	11529
60°	11089	11189	11324
65°	10676	10828	11013
70°	9985	10183	10277
75°	8984	9150	8682
80°	7505	6112	4758
85°	5598	1471	532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.5	3.2
10°-20°	1979.3	9.2
20°-30°	3031.1	14.1
30°-40°	3711.0	17.3
40°-50°	3925.9	18.3
50°-60°	3620.3	16.9
60°-70°	2792.7	13.0
70°-80°	1491.5	6.9
80°-90°	228.2	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°	5696.9	26.5
0°-40°	9407.9	43.8
0°-60°	16954.1	79.0
0°-90°	21466.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21466.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7236	7236	7236	7236	7236	
5°	7281	7194	7234	7203	7190	692
15°	7056	6981	7027	7003	7005	1994
25°	6623	6555	6597	6548	6564	3053
35°	5957	5922	5957	5906	5915	3728
45°	5075	5073	5119	5084	5108	3917
55°	4027	4023	4056	4080	4096	3593
65°	2794	2794	2834	2856	2883	2759
75°	1440	1438	1467	1478	1392	1525
85°	302	216	79	33	29	371
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7236.5	7236.5	7236.5	7236.5	7236.5
2.5°	7300.4	7214.4	7249.7	7223.2	7179.1
5°	7280.6	7194.5	7234.2	7203.4	7190.1
7.5°	7249.7	7161.5	7201.2	7176.9	7172.5
10°	7203.4	7112.9	7154.8	7128.4	7124.0
12.5°	7141.6	7053.4	7099.7	7068.8	7073.2
15°	7055.6	6980.6	7026.9	7002.7	7004.9
17.5°	6969.6	6892.4	6940.9	6916.6	6918.9
20°	6865.9	6790.9	6841.7	6804.2	6815.2
22.5°	6749.0	6682.9	6727.0	6678.4	6700.5
25°	6623.3	6554.9	6596.8	6548.3	6563.8
27.5°	6479.9	6416.0	6457.9	6407.2	6413.8
30°	6321.1	6263.8	6303.5	6252.8	6263.8
32.5°	6151.3	6100.6	6131.5	6085.1	6100.6
35°	5957.2	5921.9	5957.2	5906.5	5915.3
37.5°	5754.3	5719.0	5767.5	5723.4	5738.9
40°	5544.8	5511.7	5566.8	5522.7	5540.4
42.5°	5322.0	5297.8	5352.9	5308.8	5330.8
45°	5075.0	5072.8	5119.1	5083.8	5108.1
47.5°	4830.2	4825.8	4872.1	4847.8	4876.5
50°	4574.3	4569.9	4607.4	4605.2	4622.9
52.5°	4300.8	4307.5	4342.8	4349.4	4369.2
55°	4027.4	4022.9	4056.0	4080.3	4095.7
57.5°	3729.6	3738.4	3764.9	3793.6	3804.6
60°	3434.1	3429.7	3464.9	3489.2	3506.8
62.5°	3120.9	3120.9	3149.5	3184.8	3202.5
65°	2794.4	2794.4	2834.1	2856.2	2882.7
67.5°	2461.4	2454.8	2490.1	2538.6	2534.2
70°	2115.1	2117.3	2157.0	2181.3	2176.9
72.5°	1771.1	1777.7	1819.6	1830.6	1841.6
75°	1440.2	1438.0	1466.7	1477.7	1391.7
77.5°	1111.6	1113.8	1131.5	829.3	727.8
80°	807.2	811.6	657.3	511.7	511.7
82.5°	533.7	524.9	337.5	198.5	145.6
85°	302.2	216.1	79.4	33.1	28.7
87.5°	123.5	39.7	22.1	15.4	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)