

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: P685476

Luminaire Tested: **8CZL-18-UNV-M-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685476
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-M-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT MEDIUM LENS MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

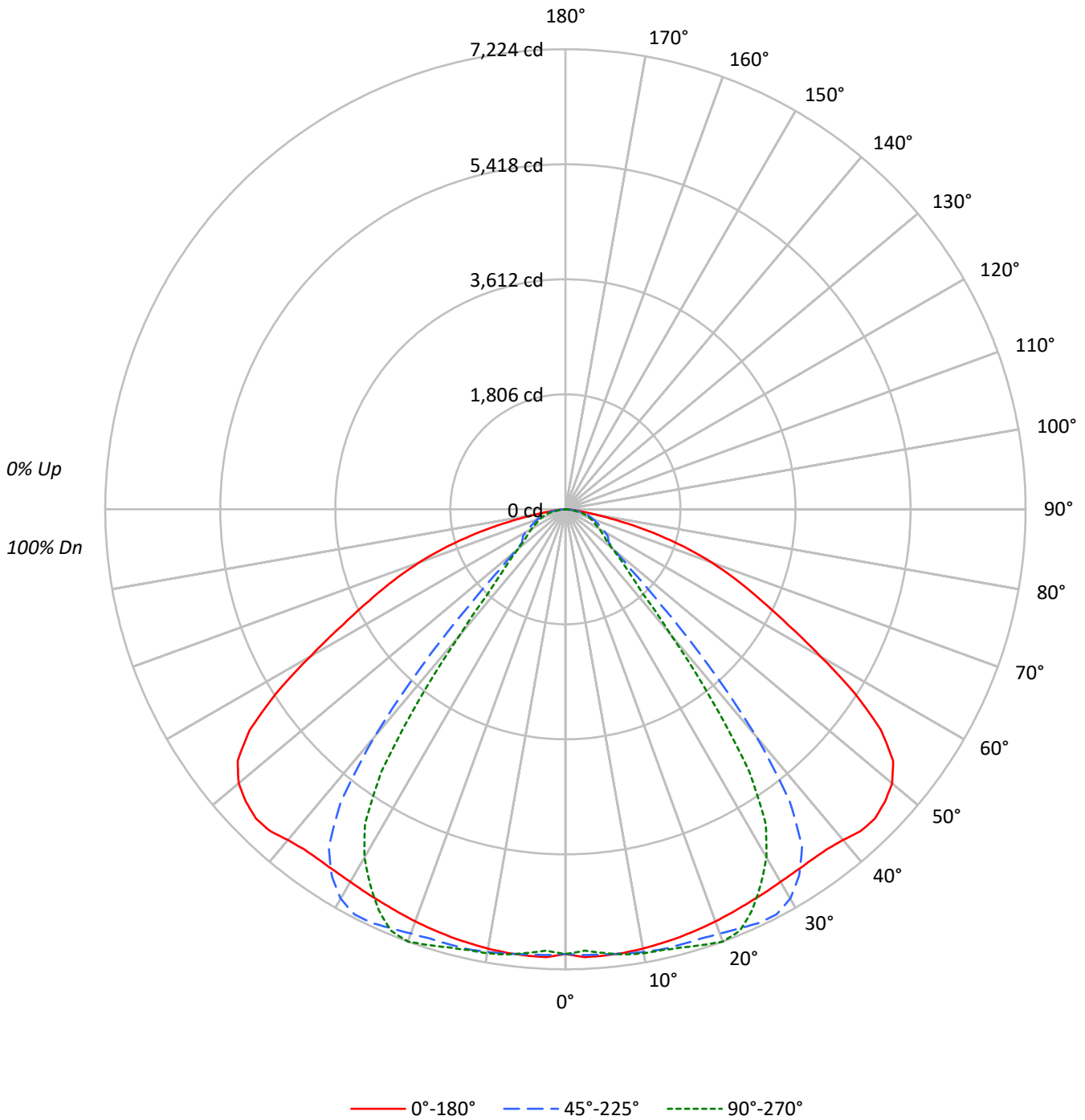
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15088.1 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.28 / 1.22
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 109
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11276	11276	11276
5°	11402	11370	11338
10°	11485	11575	11607
15°	11621	11820	11903
20°	11835	12181	12412
25°	12138	12774	12365
30°	12595	13159	11763
35°	13257	12765	9933
40°	14287	9844	5433
45°	15686	4840	3247
50°	16820	2529	2421
55°	17034	2309	2090
60°	14939	2301	1970
65°	12999	2211	1908
70°	11536	2240	1920
75°	8850	2300	1949
80°	4504	2337	1614
85°	1777	1317	459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.1	4.4
10°-20°	1994.4	13.2
20°-30°	3218.7	21.3
30°-40°	3769.6	25.0
40°-50°	2566.2	17.0
50°-60°	1485.9	9.8
60°-70°	849.5	5.6
70°-80°	437.2	2.9
80°-90°	97.4	0.6
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°	5882.2	39.0
0°-40°	9651.8	64.0
0°-60°	13703.9	90.8
0°-90°	15088.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15088.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6984	6984	6984	6984	6984	
5°	7035	6966	7015	7007	6995	670
15°	6952	6942	7071	7090	7121	1968
25°	6814	6909	7171	7060	6941	3154
35°	6726	7058	6476	5461	5039	4234
45°	6870	5111	2120	1428	1422	5278
55°	6051	1754	820	763	742	5273
65°	3403	626	579	511	499	3412
75°	1419	386	369	322	312	1508
85°	96	117	71	33	25	162
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6983.8	6983.8	6983.8	6983.8	6983.8	6983.8	6983.8	6983.8	6983.8	6983.8	6983.8
2.5°	7040.0	7020.1	6980.4	6963.9	6963.9	7006.9	7013.5	6987.1	6982.1	6959.0	6937.5
5°	7035.0	7015.2	6977.1	6962.3	6967.2	7015.2	7026.7	7005.2	7011.9	7005.2	6995.3
7.5°	7025.1	7003.6	6968.9	6959.0	6973.8	7035.0	7054.8	7043.3	7058.2	7054.8	7051.5
10°	7005.2	6988.7	6955.6	6954.0	6983.8	7059.8	7084.6	7069.7	7074.7	7073.0	7079.6
12.5°	6978.8	6963.9	6935.8	6950.7	6993.7	7074.7	7091.2	7068.1	7074.7	7076.3	7087.9
15°	6952.3	6934.2	6916.0	6950.7	6995.3	7071.4	7087.9	7084.6	7104.4	7106.1	7121.0
17.5°	6919.3	6907.7	6902.7	6949.0	6983.8	7068.1	7106.1	7125.9	7152.4	7159.0	7173.9
20°	6887.9	6877.9	6889.5	6940.8	6978.8	7089.6	7142.5	7172.2	7200.3	7208.6	7223.5
22.5°	6849.8	6843.2	6874.6	6929.2	6987.1	7122.6	7182.2	7185.5	7173.9	7152.4	7162.3
25°	6813.5	6813.5	6859.8	6925.9	7011.9	7170.6	7175.5	7081.3	6997.0	6940.8	6940.8
27.5°	6783.7	6790.3	6848.2	6940.8	7059.8	7173.9	7036.7	6849.8	6725.8	6644.8	6639.9
30°	6755.6	6767.2	6848.2	6982.1	7094.5	7058.2	6792.0	6565.5	6393.5	6315.8	6309.2
32.5°	6735.7	6753.9	6877.9	7044.9	7053.2	6825.0	6477.8	6191.8	5988.4	5872.7	5852.9
35°	6725.8	6747.3	6934.2	7099.5	6886.2	6476.2	5983.5	5542.0	5219.6	5070.8	5039.4
37.5°	6732.4	6770.5	7011.9	7053.2	6467.9	5790.0	5082.4	4449.2	4006.1	3865.5	3768.0
40°	6778.7	6843.2	7073.0	6676.2	5590.0	4670.7	3733.3	3052.1	2746.2	2645.4	2577.6
42.5°	6856.4	6920.9	6912.7	5813.2	4366.5	3318.3	2405.6	1997.2	1848.4	1831.9	1800.5
45°	6869.7	6894.5	6393.5	4683.9	3176.1	2119.6	1549.2	1428.5	1425.2	1436.8	1421.9
47.5°	6800.2	6752.3	5644.5	3582.8	2187.4	1370.6	1165.6	1185.5	1195.4	1187.1	1175.5
50°	6696.1	6519.2	4804.6	2633.8	1458.3	1006.9	1016.8	1035.0	1000.3	977.1	963.9
52.5°	6484.4	6140.5	3872.1	1866.6	1008.5	859.7	939.1	886.2	836.6	823.4	821.7
55°	6051.3	5578.4	2979.3	1345.8	770.5	820.1	834.9	767.2	752.3	745.7	742.4
57.5°	5391.6	4879.0	2240.3	972.2	676.2	792.0	725.8	699.4	684.5	679.5	674.6
60°	4626.1	4097.0	1669.9	714.2	656.4	712.6	658.0	633.2	616.7	610.1	610.1
62.5°	3948.2	3391.0	1235.1	580.3	651.4	643.2	593.6	567.1	557.2	553.9	550.6
65°	3402.6	2728.0	891.2	537.3	608.4	578.7	530.7	512.5	505.9	499.3	499.3
67.5°	2916.5	2136.1	656.4	527.4	558.8	520.8	484.4	469.6	461.3	459.6	458.0
70°	2443.7	1574.0	499.3	515.8	530.7	474.5	439.8	421.6	411.7	406.7	406.7
72.5°	1946.0	1079.6	398.5	474.5	486.1	420.0	385.2	372.0	363.7	358.8	357.1
75°	1418.6	677.9	350.5	398.5	418.3	368.7	334.0	322.4	319.1	314.1	312.5
77.5°	902.7	405.1	299.3	325.7	342.2	310.8	284.4	269.5	267.8	262.9	261.2
80°	484.4	259.6	239.7	256.3	266.2	251.3	219.9	190.1	181.9	175.3	173.6
82.5°	224.9	165.3	178.6	193.4	198.4	160.4	132.3	119.0	110.8	102.5	97.5
85°	95.9	89.3	110.8	119.0	97.5	71.1	46.3	34.7	28.1	26.5	24.8
87.5°	34.7	34.7	41.3	28.1	16.5	13.2	13.2	11.6	9.9	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)