

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: P685594

Luminaire Tested: **8CZL-10-UNV-FL-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685594
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-FL-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

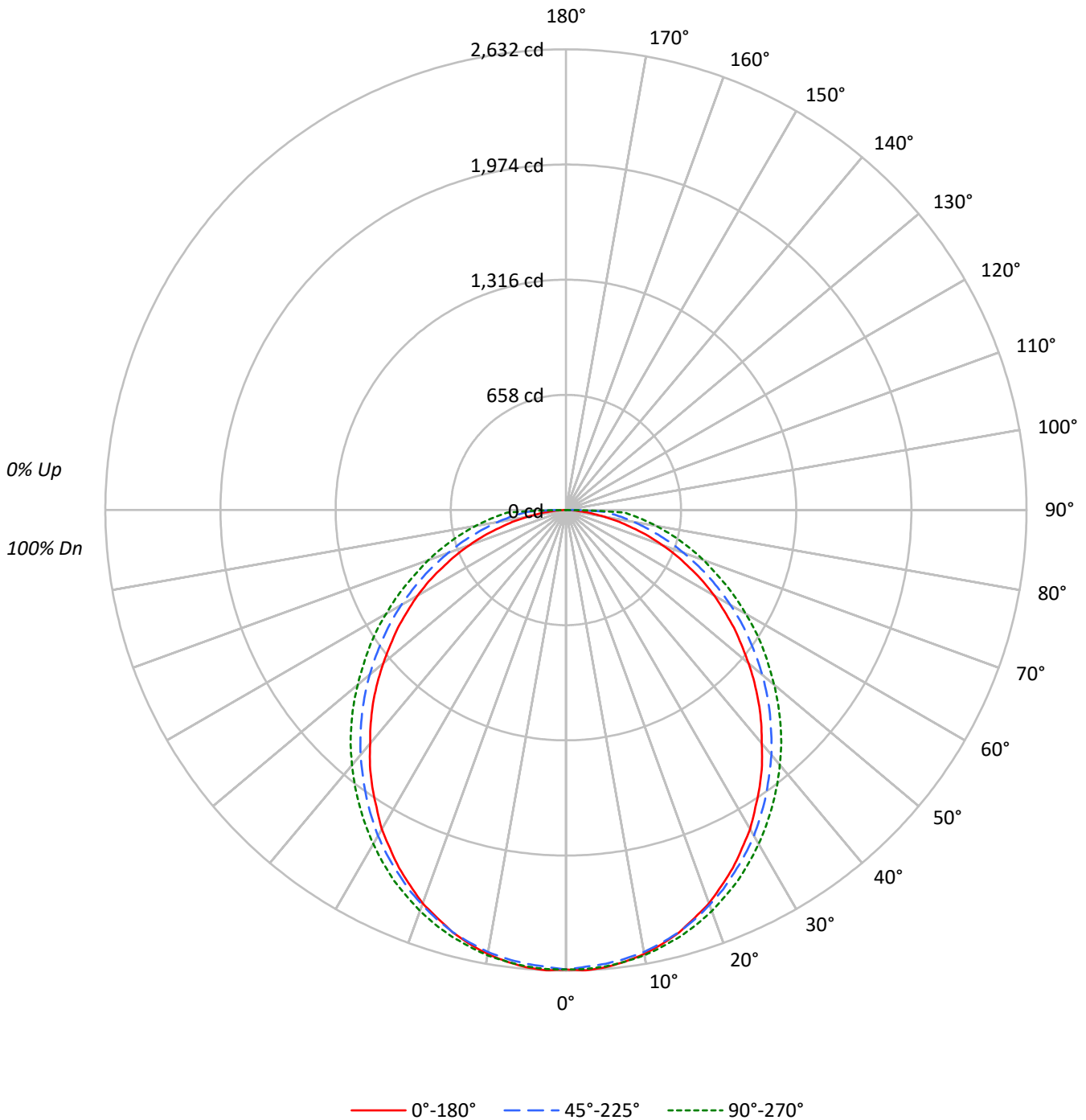
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7393.0 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): 63
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	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°	4238	4238	4238
5°	4246	4189	4205
10°	4214	4147	4163
15°	4164	4087	4106
20°	4094	4011	4042
25°	4001	3922	3969
30°	3901	3832	3883
35°	3777	3723	3791
40°	3638	3613	3697
45°	3521	3490	3600
50°	3379	3364	3486
55°	3249	3226	3383
60°	3106	3088	3265
65°	2916	2940	3163
70°	2695	2777	3100
75°	2367	2639	3064
80°	1945	2549	3105
85°	1304	2608	3364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	3.4
10°-20°	706.4	9.6
20°-30°	1055.1	14.3
30°-40°	1247.9	16.9
40°-50°	1271.5	17.2
50°-60°	1139.4	15.4
60°-70°	887.4	12.0
70°-80°	574.5	7.8
80°-90°	262.5	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°	2009.8	27.2
0°-40°	3257.7	44.1
0°-60°	5668.5	76.7
0°-90°	7393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2622	2618	2602	2618	2617	249
15°	2498	2498	2496	2520	2522	703
25°	2256	2264	2281	2322	2332	1038
35°	1930	1949	1992	2046	2058	1206
45°	1558	1586	1648	1711	1734	1201
55°	1171	1204	1274	1347	1373	1046
65°	780	814	898	974	1005	775
75°	394	444	546	637	674	423
85°	79	152	266	363	389	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2632.1	2627.6	2611.7	2625.6	2625.1
5°	2622.1	2617.6	2602.2	2617.6	2617.1
7.5°	2601.7	2600.2	2586.2	2603.2	2601.7
10°	2575.2	2573.2	2564.3	2581.2	2583.7
12.5°	2540.3	2539.3	2532.3	2552.3	2553.8
15°	2497.9	2497.9	2496.4	2519.9	2522.4
17.5°	2443.5	2450.5	2452.0	2477.5	2482.9
20°	2391.7	2393.6	2400.6	2431.6	2438.1
22.5°	2323.3	2331.8	2345.8	2379.7	2385.2
25°	2256.5	2264.4	2281.4	2321.8	2331.8
27.5°	2178.6	2194.1	2217.5	2258.0	2267.9
30°	2104.8	2117.8	2148.2	2193.1	2203.1
32.5°	2014.5	2036.4	2071.4	2118.8	2132.2
35°	1930.2	1948.6	1992.0	2045.9	2057.9
37.5°	1839.9	1861.8	1907.7	1965.1	1981.6
40°	1741.1	1773.0	1826.4	1883.8	1901.3
42.5°	1650.8	1680.2	1736.6	1801.5	1821.4
45°	1558.0	1586.0	1647.8	1710.7	1734.1
47.5°	1461.2	1490.2	1557.5	1624.4	1645.3
50°	1362.0	1396.4	1463.7	1534.1	1553.0
52.5°	1263.2	1297.6	1368.9	1439.3	1460.7
55°	1171.4	1204.3	1273.7	1347.0	1373.4
57.5°	1071.6	1106.5	1182.9	1253.7	1282.1
60°	979.3	1004.8	1085.6	1158.9	1186.3
62.5°	884.0	911.5	990.3	1065.6	1098.0
65°	780.3	814.2	898.5	973.8	1005.3
67.5°	685.5	717.9	804.7	889.5	915.0
70°	587.2	624.6	714.4	801.2	837.1
72.5°	493.4	532.3	631.1	717.4	753.8
75°	394.1	444.5	546.3	637.1	674.5
77.5°	312.3	362.2	466.5	561.2	597.2
80°	221.5	282.9	395.6	491.4	523.3
82.5°	147.7	210.0	328.3	421.6	456.0
85°	78.8	152.2	266.4	362.7	389.1
87.5°	34.4	106.3	216.0	301.8	333.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)