

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: P685654

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685654
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-FUL-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL WITH UPLIGHT @90 CRI
and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

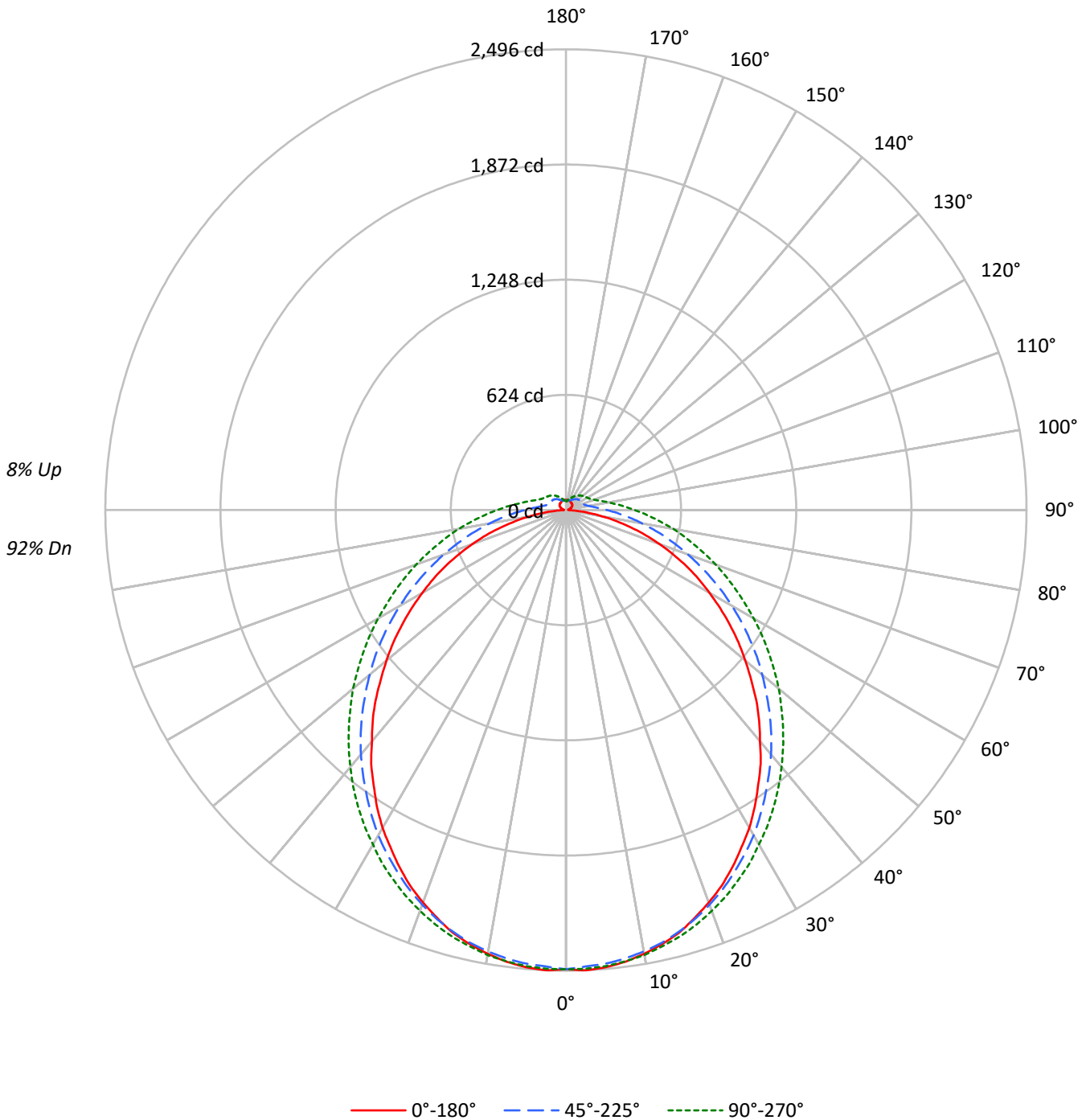
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7761.9 lumens
Efficiency: N/A
Efficacy: 123.2 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: 0.17')
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	95	95	95	92
1	106	101	96	92	102	98	93	90	92	88	85	87	84	81	82	79	77	77	77	77	75
2	96	87	80	74	93	85	78	73	80	74	70	75	71	67	71	68	64	64	64	64	62
3	87	77	68	61	84	74	67	60	70	64	58	66	61	56	63	58	54	54	54	54	52
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	47	47	47	44
5	74	61	51	45	71	59	50	44	56	49	43	53	47	42	50	45	41	41	41	41	38
6	68	54	45	39	65	53	45	38	50	43	38	48	42	37	46	40	36	36	36	36	33
7	63	49	41	34	61	48	40	34	46	39	33	44	37	32	42	36	32	32	32	32	30
8	59	45	37	31	57	44	36	30	42	35	30	40	34	29	38	33	28	28	28	28	26
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	26	26	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	23	23	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4017	4017	4017
5°	4023	3945	3951
10°	3988	3875	3877
15°	3942	3796	3794
20°	3859	3700	3702
25°	3767	3591	3603
30°	3663	3480	3496
35°	3529	3347	3393
40°	3389	3221	3280
45°	3263	3083	3165
50°	3111	2942	3054
55°	2964	2795	2932
60°	2799	2640	2818
65°	2638	2480	2711
70°	2404	2326	2630
75°	2114	2183	2557
80°	1697	2076	2576
85°	1067	2048	2653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.0
10°-20°	669.6	8.6
20°-30°	999.9	12.9
30°-40°	1182.0	15.2
40°-50°	1204.5	15.5
50°-60°	1086.1	14.0
60°-70°	859.4	11.1
70°-80°	580.8	7.5
80°-90°	324.8	4.2
90°-100°	176.8	2.3
100°-110°	115.9	1.5
110°-120°	91.9	1.2
120°-130°	78.2	1.0
130°-140°	62.6	0.8
140°-150°	44.8	0.6
150°-160°	28.9	0.4
160°-170°	15.6	0.2
170°-180°	4.9	0.1
0°-30°	1904.9	24.5
0°-40°	3086.9	39.8
0°-60°	5377.5	69.3
0°-90°	7142.4	92.0
90°-120°	384.6	5.0
90°-150°	570.2	7.3
90°-180°	620.0	8.0
0°-180°	7761.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2488	2488	2488	2488	2488	
5°	2487	2483	2467	2481	2480	236
15°	2371	2368	2366	2386	2391	667
25°	2135	2145	2162	2203	2211	983
35°	1816	1842	1884	1944	1963	1137
45°	1459	1488	1561	1634	1663	1123
55°	1084	1125	1214	1306	1339	970
65°	721	758	867	973	1014	712
75°	365	416	554	676	716	388
85°	71	160	308	428	470	87
90°	11	88	222	331	372	8
95°	12	58	163	260	296	10
105°	20	51	106	168	193	21
115°	32	55	95	130	144	32
125°	42	57	90	117	126	38
135°	47	56	84	104	111	36
145°	49	54	70	89	94	31
155°	52	53	58	73	75	24
165°	54	53	52	55	59	15
175°	55	54	52	45	46	5
180°	51	51	51	51	51	

TEST NUMBER: P685654

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2488.1	2488.1	2488.1	2488.1	2488.1
2.5°	2496.1	2492.1	2475.6	2488.6	2488.1
5°	2486.6	2482.6	2467.1	2481.1	2480.1
7.5°	2468.1	2465.6	2451.2	2466.6	2466.1
10°	2441.2	2441.2	2428.7	2446.7	2448.2
12.5°	2408.8	2408.3	2401.8	2420.2	2420.2
15°	2371.3	2368.3	2365.8	2386.3	2391.3
17.5°	2318.0	2319.9	2324.4	2348.9	2353.9
20°	2263.1	2267.6	2276.0	2305.0	2311.5
22.5°	2204.2	2209.2	2222.7	2254.1	2264.6
25°	2134.9	2144.8	2162.3	2202.7	2211.2
27.5°	2060.0	2077.5	2099.9	2142.8	2157.3
30°	1988.2	2002.1	2034.6	2079.5	2091.9
32.5°	1905.4	1922.3	1960.2	2014.1	2031.1
35°	1816.5	1841.5	1883.9	1943.8	1962.7
37.5°	1733.7	1753.7	1806.1	1869.9	1892.4
40°	1635.9	1668.4	1728.7	1791.6	1817.5
42.5°	1550.1	1578.1	1645.9	1715.3	1742.2
45°	1458.8	1487.8	1561.1	1633.9	1663.4
47.5°	1361.0	1395.5	1473.8	1555.1	1582.6
50°	1269.2	1305.2	1389.0	1471.3	1505.7
52.5°	1178.9	1216.4	1303.2	1390.0	1421.9
55°	1084.1	1124.6	1214.4	1306.2	1339.1
57.5°	991.3	1031.8	1127.5	1222.3	1257.8
60°	898.0	936.0	1038.7	1136.0	1174.9
62.5°	810.7	847.7	953.4	1058.2	1092.1
65°	721.4	757.8	866.6	973.4	1013.8
67.5°	629.1	673.0	782.3	894.1	937.0
70°	538.3	583.2	704.0	820.2	863.1
72.5°	452.5	503.4	625.1	743.9	787.8
75°	365.2	415.6	553.8	676.5	715.9
77.5°	282.9	341.8	483.9	607.7	654.1
80°	204.1	270.9	421.1	542.3	591.2
82.5°	134.2	210.5	362.7	482.9	526.9
85°	71.3	160.2	307.8	427.6	470.5
87.5°	27.9	118.7	261.9	377.2	420.1
90°	11.0	88.3	221.5	330.8	371.7
92.5°	11.0	68.9	188.6	293.4	331.8
95°	12.0	57.9	162.6	259.9	296.4
97.5°	13.0	52.4	142.2	230.5	262.9
100°	15.0	50.4	126.7	206.6	236.0
102.5°	17.5	50.4	114.3	184.6	212.5
105°	20.5	51.4	106.3	167.6	192.6
107.5°	23.0	52.4	100.8	153.7	176.1
110°	25.9	53.9	97.8	143.2	162.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.9	54.9	95.8	135.7	152.7
115°	31.9	55.4	94.8	129.7	144.2
117.5°	34.9	56.4	93.8	125.7	138.2
120°	37.9	56.9	92.8	122.7	133.7
122.5°	40.4	56.9	91.8	119.7	129.7
125°	42.4	57.4	90.3	116.7	126.2
127.5°	43.9	57.9	89.3	113.8	122.2
130°	45.4	57.4	87.8	110.8	118.7
132.5°	46.4	56.9	85.8	107.8	115.2
135°	46.9	56.4	83.8	104.3	111.3
137.5°	47.4	55.9	80.8	100.8	107.3
140°	47.4	55.4	77.3	96.8	102.8
142.5°	47.9	54.4	73.8	92.8	98.3
145°	48.9	53.9	70.3	88.8	93.8
147.5°	49.9	52.9	67.4	84.3	88.8
150°	50.9	52.9	64.4	80.3	84.3
152.5°	51.4	52.9	61.4	76.8	79.8
155°	52.4	52.9	58.4	73.3	75.3
157.5°	52.9	52.9	56.4	68.9	70.8
160°	53.4	53.4	54.4	63.9	66.9
162.5°	54.4	53.4	53.4	58.9	62.9
165°	54.4	53.4	52.4	54.9	59.4
167.5°	54.9	53.9	51.9	51.9	56.4
170°	54.9	53.9	51.9	49.4	51.9
172.5°	54.9	53.9	51.9	47.4	48.4
175°	54.9	53.9	51.9	45.4	45.9
177.5°	54.9	53.9	51.4	43.9	45.9
180°	50.9	50.9	50.9	50.9	50.9

(END OF REPORT)