

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: P391056

Luminaire Tested: **24CZ2-130VHE-RDP-UNV-L935-CD2-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P391056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-130VHE-RDP-UNV-L935-CD2-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7362.9 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

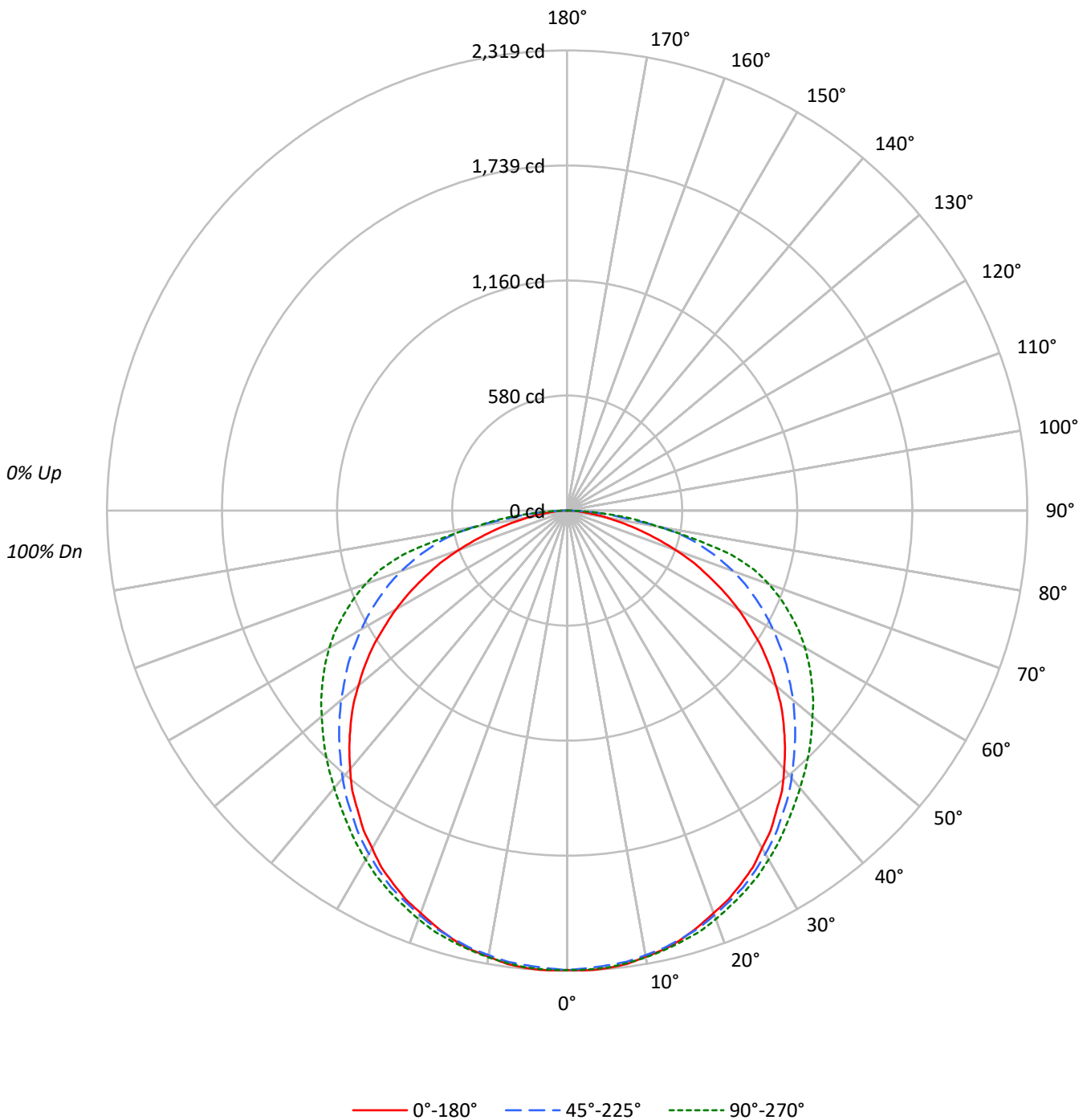
Input Watts (W): 90.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3115	3115	3115
5°	3127	3108	3122
10°	3119	3108	3124
15°	3113	3108	3129
20°	3090	3106	3138
25°	3080	3112	3145
30°	3053	3104	3155
35°	3023	3095	3167
40°	2989	3092	3207
45°	2939	3092	3280
50°	2874	3111	3379
55°	2801	3161	3530
60°	2683	3224	3725
65°	2512	3337	3953
70°	2284	3491	4253
75°	1936	3683	4443
80°	1528	3707	3594
85°	1127	2819	3157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	3.0
10°-20°	632.1	8.6
20°-30°	966.6	13.1
30°-40°	1181.7	16.0
40°-50°	1259.5	17.1
50°-60°	1204.2	16.4
60°-70°	1020.1	13.9
70°-80°	685.6	9.3
80°-90°	193.4	2.6
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°	1818.4	24.7
0°-40°	3000.1	40.7
0°-60°	5463.8	74.2
0°-90°	7362.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7362.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2315	2315	2315	2315	2315	
5°	2315	2312	2301	2312	2312	220
15°	2235	2235	2231	2250	2246	630
25°	2074	2082	2096	2115	2118	956
35°	1841	1855	1884	1921	1928	1153
45°	1545	1570	1625	1695	1724	1192
55°	1194	1238	1348	1454	1505	1064
65°	789	869	1048	1187	1242	783
75°	372	508	708	829	855	399
85°	73	150	183	197	204	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2319.1	2319.1	2308.1	2315.4	2315.4
5°	2315.4	2311.8	2300.8	2311.8	2311.8
7.5°	2304.5	2300.8	2293.5	2304.5	2300.8
10°	2282.6	2282.6	2275.2	2286.2	2286.2
12.5°	2264.3	2260.6	2257.0	2271.6	2267.9
15°	2235.1	2235.1	2231.4	2249.7	2246.0
17.5°	2198.6	2202.2	2205.9	2220.5	2224.1
20°	2158.4	2165.7	2169.3	2191.3	2191.3
22.5°	2121.9	2125.5	2132.8	2154.7	2154.7
25°	2074.4	2081.7	2096.3	2114.6	2118.2
27.5°	2026.9	2030.6	2048.8	2074.4	2078.0
30°	1964.8	1975.8	1997.7	2026.9	2030.6
32.5°	1910.0	1921.0	1946.6	1975.8	1983.1
35°	1840.7	1855.3	1884.5	1921.0	1928.3
37.5°	1778.6	1789.5	1826.0	1866.2	1877.2
40°	1701.9	1723.8	1760.3	1807.8	1826.0
42.5°	1625.2	1647.1	1690.9	1753.0	1774.9
45°	1544.8	1570.4	1625.2	1694.6	1723.8
47.5°	1464.5	1493.7	1555.8	1636.1	1669.0
50°	1373.2	1409.7	1486.4	1577.7	1614.2
52.5°	1285.5	1329.4	1413.4	1515.6	1563.1
55°	1194.2	1238.1	1347.6	1453.5	1504.7
57.5°	1092.0	1150.4	1270.9	1391.4	1446.2
60°	997.0	1051.8	1197.9	1329.4	1384.1
62.5°	894.8	967.8	1124.8	1263.6	1318.4
65°	788.9	869.2	1048.1	1186.9	1241.7
67.5°	693.9	781.5	971.5	1110.2	1165.0
70°	580.7	690.2	887.5	1026.2	1081.0
72.5°	474.8	595.3	799.8	934.9	986.1
75°	372.5	507.6	708.5	829.0	854.6
77.5°	277.6	420.0	613.6	664.7	646.4
80°	197.2	336.0	478.4	452.9	463.8
82.5°	127.8	255.6	295.8	336.0	346.9
85°	73.0	149.7	182.6	197.2	204.5
87.5°	32.9	54.8	73.0	73.0	69.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)