

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: P391055

Luminaire Tested: **24CZ2-130VHE-RDP-UNV-L930-CD2-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: P391055
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-L930-CD2-U
Description: 2x4 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7364.3 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

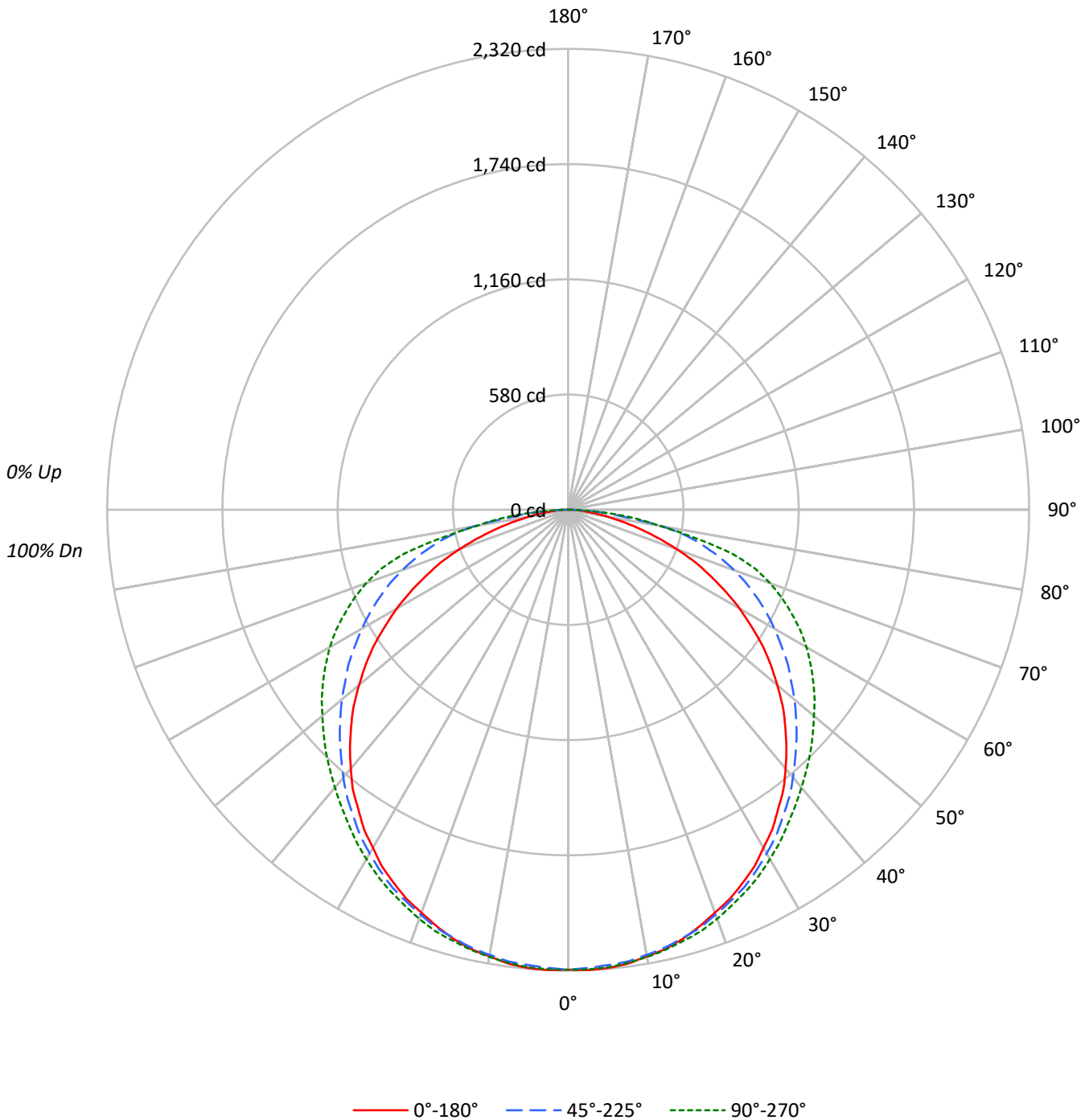
Input Watts (W): 90.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3116	3116	3116
5°	3128	3108	3123
10°	3119	3109	3124
15°	3114	3109	3129
20°	3091	3107	3138
25°	3080	3113	3145
30°	3053	3104	3155
35°	3024	3096	3168
40°	2990	3092	3208
45°	2940	3093	3281
50°	2875	3112	3379
55°	2802	3162	3530
60°	2683	3224	3725
65°	2512	3337	3954
70°	2285	3492	4253
75°	1937	3684	4444
80°	1529	3708	3594
85°	1129	2819	3159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.0
10°-20°	632.2	8.6
20°-30°	966.8	13.1
30°-40°	1181.9	16.0
40°-50°	1259.7	17.1
50°-60°	1204.4	16.4
60°-70°	1020.3	13.9
70°-80°	685.7	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°	1818.8	24.7
0°-40°	3000.7	40.7
0°-60°	5464.8	74.2
0°-90°	7364.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7364.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2316	2312	2301	2312	2312	220
15°	2236	2236	2232	2250	2246	630
25°	2075	2082	2097	2115	2119	956
35°	1841	1856	1885	1921	1929	1153
45°	1545	1571	1626	1695	1724	1192
55°	1194	1238	1348	1454	1505	1064
65°	789	869	1048	1187	1242	783
75°	373	508	709	829	855	399
85°	73	150	183	197	205	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315.9	2315.9	2315.9	2315.9	2315.9
2.5°	2319.5	2319.5	2308.6	2315.9	2315.9
5°	2315.9	2312.2	2301.3	2312.2	2312.2
7.5°	2304.9	2301.3	2293.9	2304.9	2301.3
10°	2283.0	2283.0	2275.7	2286.6	2286.6
12.5°	2264.7	2261.1	2257.4	2272.0	2268.4
15°	2235.5	2235.5	2231.8	2250.1	2246.5
17.5°	2199.0	2202.6	2206.3	2220.9	2224.5
20°	2158.8	2166.1	2169.8	2191.7	2191.7
22.5°	2122.3	2125.9	2133.2	2155.1	2155.1
25°	2074.8	2082.1	2096.7	2115.0	2118.6
27.5°	2027.3	2030.9	2049.2	2074.8	2078.4
30°	1965.2	1976.2	1998.1	2027.3	2030.9
32.5°	1910.4	1921.4	1946.9	1976.2	1983.5
35°	1841.0	1855.6	1884.8	1921.4	1928.7
37.5°	1778.9	1789.9	1826.4	1866.6	1877.5
40°	1702.2	1724.1	1760.6	1808.1	1826.4
42.5°	1625.5	1647.4	1691.2	1753.3	1775.3
45°	1545.1	1570.7	1625.5	1694.9	1724.1
47.5°	1464.8	1494.0	1556.1	1636.4	1669.3
50°	1373.4	1410.0	1486.7	1578.0	1614.5
52.5°	1285.8	1329.6	1413.6	1515.9	1563.4
55°	1194.5	1238.3	1347.9	1453.8	1504.9
57.5°	1092.2	1150.6	1271.2	1391.7	1446.5
60°	997.2	1052.0	1198.1	1329.6	1384.4
62.5°	894.9	968.0	1125.1	1263.9	1318.7
65°	789.0	869.4	1048.3	1187.2	1241.9
67.5°	694.0	781.7	971.6	1110.4	1165.2
70°	580.8	690.4	887.6	1026.4	1081.2
72.5°	474.9	595.4	800.0	935.1	986.3
75°	372.6	507.7	708.6	829.2	854.8
77.5°	277.6	420.1	613.7	664.8	646.5
80°	197.3	336.1	478.5	452.9	463.9
82.5°	127.8	255.7	295.9	336.1	347.0
85°	73.1	149.8	182.6	197.3	204.6
87.5°	32.9	54.8	73.1	73.1	69.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)