

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: P391062

Luminaire Tested: **24CZ2-130VHE-RDP-UNV-L950-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: P391062
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-L950-CD2-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7896.1 lumens
Efficiency: N/A
Efficacy: 87.1 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

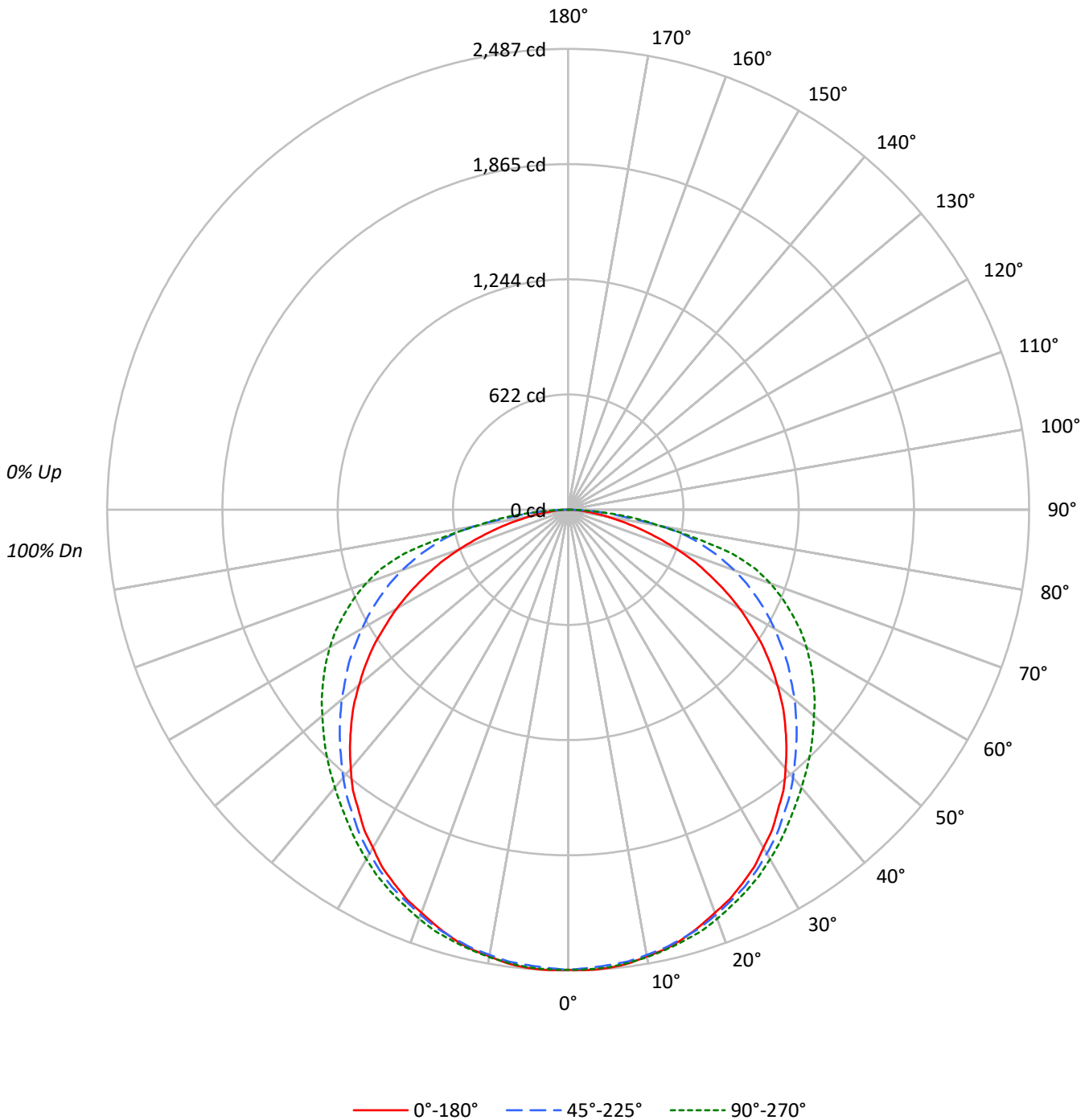
Input Watts (W): 90.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3341	3341	3341
5°	3354	3333	3348
10°	3344	3334	3350
15°	3339	3333	3355
20°	3314	3331	3365
25°	3303	3337	3372
30°	3274	3329	3383
35°	3242	3319	3397
40°	3206	3316	3440
45°	3152	3316	3518
50°	3082	3337	3624
55°	3004	3390	3785
60°	2877	3457	3994
65°	2693	3579	4239
70°	2450	3744	4561
75°	2077	3950	4764
80°	1639	3976	3854
85°	1209	3023	3386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	3.0
10°-20°	677.9	8.6
20°-30°	1036.6	13.1
30°-40°	1267.3	16.0
40°-50°	1350.7	17.1
50°-60°	1291.4	16.4
60°-70°	1094.0	13.9
70°-80°	735.3	9.3
80°-90°	207.4	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°	1950.1	24.7
0°-40°	3217.4	40.7
0°-60°	5859.5	74.2
0°-90°	7896.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7896.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2483	2483	2483	2483	2483	
5°	2483	2479	2467	2479	2479	236
15°	2397	2397	2393	2413	2409	676
25°	2225	2232	2248	2268	2272	1025
35°	1974	1990	2021	2060	2068	1237
45°	1657	1684	1743	1817	1849	1278
55°	1281	1328	1445	1559	1614	1141
65°	846	932	1124	1273	1332	840
75°	400	544	760	889	916	428
85°	78	161	196	212	219	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2483.1	2483.1	2483.1	2483.1	2483.1
2.5°	2487.0	2487.0	2475.3	2483.1	2483.1
5°	2483.1	2479.2	2467.4	2479.2	2479.2
7.5°	2471.3	2467.4	2459.6	2471.3	2467.4
10°	2447.8	2447.8	2440.0	2451.8	2451.8
12.5°	2428.3	2424.3	2420.4	2436.1	2432.2
15°	2396.9	2396.9	2393.0	2412.6	2408.7
17.5°	2357.8	2361.7	2365.6	2381.3	2385.2
20°	2314.7	2322.5	2326.4	2349.9	2349.9
22.5°	2275.5	2279.4	2287.3	2310.8	2310.8
25°	2224.6	2232.4	2248.1	2267.7	2271.6
27.5°	2173.7	2177.6	2197.2	2224.6	2228.5
30°	2107.1	2118.9	2142.4	2173.7	2177.6
32.5°	2048.4	2060.1	2087.5	2118.9	2126.7
35°	1973.9	1989.6	2020.9	2060.1	2067.9
37.5°	1907.4	1919.1	1958.3	2001.4	2013.1
40°	1825.1	1848.6	1887.8	1938.7	1958.3
42.5°	1742.9	1766.4	1813.4	1879.9	1903.4
45°	1656.7	1684.1	1742.9	1817.3	1848.6
47.5°	1570.5	1601.9	1668.5	1754.6	1789.9
50°	1472.6	1511.8	1594.0	1692.0	1731.1
52.5°	1378.6	1425.6	1515.7	1625.4	1676.3
55°	1280.7	1327.7	1445.2	1558.8	1613.6
57.5°	1171.1	1233.7	1363.0	1492.2	1551.0
60°	1069.2	1128.0	1284.6	1425.6	1484.4
62.5°	959.6	1037.9	1206.3	1355.1	1413.9
65°	846.0	932.1	1124.1	1272.9	1331.6
67.5°	744.1	838.1	1041.8	1190.6	1249.4
70°	622.7	740.2	951.7	1100.6	1159.3
72.5°	509.2	638.4	857.7	1002.6	1057.5
75°	399.5	544.4	759.8	889.1	916.5
77.5°	297.7	450.4	658.0	712.8	693.2
80°	211.5	360.3	513.1	485.7	497.4
82.5°	137.1	274.2	317.2	360.3	372.1
85°	78.3	160.6	195.8	211.5	219.3
87.5°	35.2	58.7	78.3	78.3	74.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)