

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: P390430

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-L930-CD1-SWPD1-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: P390430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-RDP-UNV-L930-CD1-SWPD1-U
Description: 2x2 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: 2792.2 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

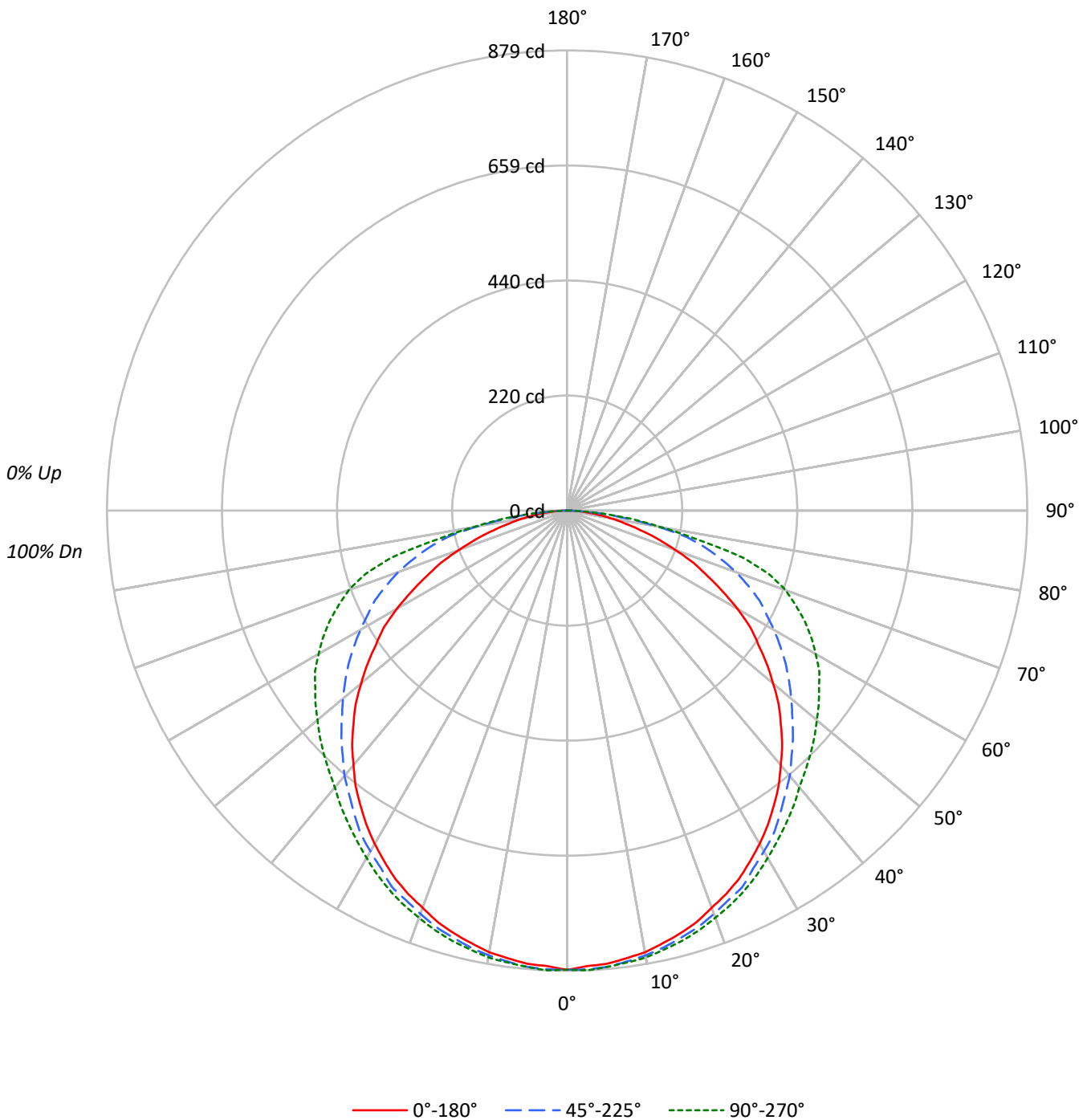
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	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°	2360	2360	2360
5°	2347	2364	2364
10°	2340	2357	2369
15°	2329	2352	2369
20°	2312	2347	2371
25°	2305	2354	2379
30°	2285	2336	2381
35°	2260	2328	2395
40°	2230	2323	2425
45°	2197	2322	2501
50°	2150	2339	2606
55°	2091	2390	2756
60°	2023	2454	2951
65°	1883	2576	3191
70°	1729	2699	3491
75°	1516	2840	3609
80°	1305	2706	2833
85°	1142	1967	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.0
10°-20°	238.2	8.5
20°-30°	363.4	13.0
30°-40°	443.8	15.9
40°-50°	474.5	17.0
50°-60°	458.0	16.4
60°-70°	394.2	14.1
70°-80°	266.7	9.6
80°-90°	70.4	2.5
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°	684.6	24.5
0°-40°	1128.4	40.4
0°-60°	2060.8	73.8
0°-90°	2792.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2792.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	869	871	875	875	875	83
15°	836	838	844	848	850	236
25°	776	780	793	797	801	357
35°	688	694	709	723	729	431
45°	577	588	610	641	657	446
55°	446	460	509	561	588	399
65°	296	324	405	468	501	294
75°	146	193	273	329	347	156
85°	37	51	64	66	70	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.1	877.1	877.1	877.1	877.1
2.5°	870.9	873.0	877.1	877.1	879.1
5°	868.9	870.9	875.0	875.0	875.0
7.5°	862.7	864.8	868.9	870.9	870.9
10°	856.5	858.6	862.7	864.8	866.8
12.5°	846.3	848.3	854.5	858.6	858.6
15°	836.0	838.1	844.2	848.3	850.4
17.5°	823.7	827.8	833.9	838.1	840.1
20°	807.2	811.3	819.6	825.7	827.8
22.5°	792.9	797.0	805.2	811.3	815.5
25°	776.4	780.5	792.9	797.0	801.1
27.5°	755.9	760.0	770.3	778.5	784.6
30°	735.3	739.5	751.8	762.1	766.2
32.5°	712.8	718.9	733.3	741.5	747.7
35°	688.1	694.3	708.6	723.0	729.2
37.5°	663.5	669.6	684.0	702.5	710.7
40°	634.7	642.9	661.4	686.1	690.2
42.5°	608.0	618.3	634.7	663.5	673.7
45°	577.2	587.5	610.1	640.9	657.3
47.5°	548.4	558.7	583.3	620.3	640.9
50°	513.5	527.9	558.7	601.8	622.4
52.5°	480.6	493.0	534.1	581.3	605.9
55°	445.7	460.1	509.4	560.8	587.5
57.5°	414.9	427.2	482.7	540.2	571.0
60°	375.9	392.3	456.0	517.6	548.4
62.5°	334.8	359.5	429.3	493.0	525.8
65°	295.8	324.5	404.6	468.3	501.2
67.5°	260.9	291.7	373.8	441.6	472.4
70°	219.8	258.8	343.0	408.8	443.7
72.5°	182.8	225.9	308.1	373.8	404.6
75°	145.8	193.1	273.2	328.6	347.1
77.5°	113.0	158.2	234.2	250.6	252.6
80°	84.2	125.3	174.6	176.6	182.8
82.5°	57.5	88.3	113.0	123.2	125.3
85°	37.0	51.4	63.7	65.7	69.8
87.5°	16.4	18.5	22.6	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)