

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: P390433

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-L935-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: P390433
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-L935-CD1-SWPD1-U
Description: 2x2 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: 2861.3 lumens
Efficiency: N/A
Efficacy: 79.0 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

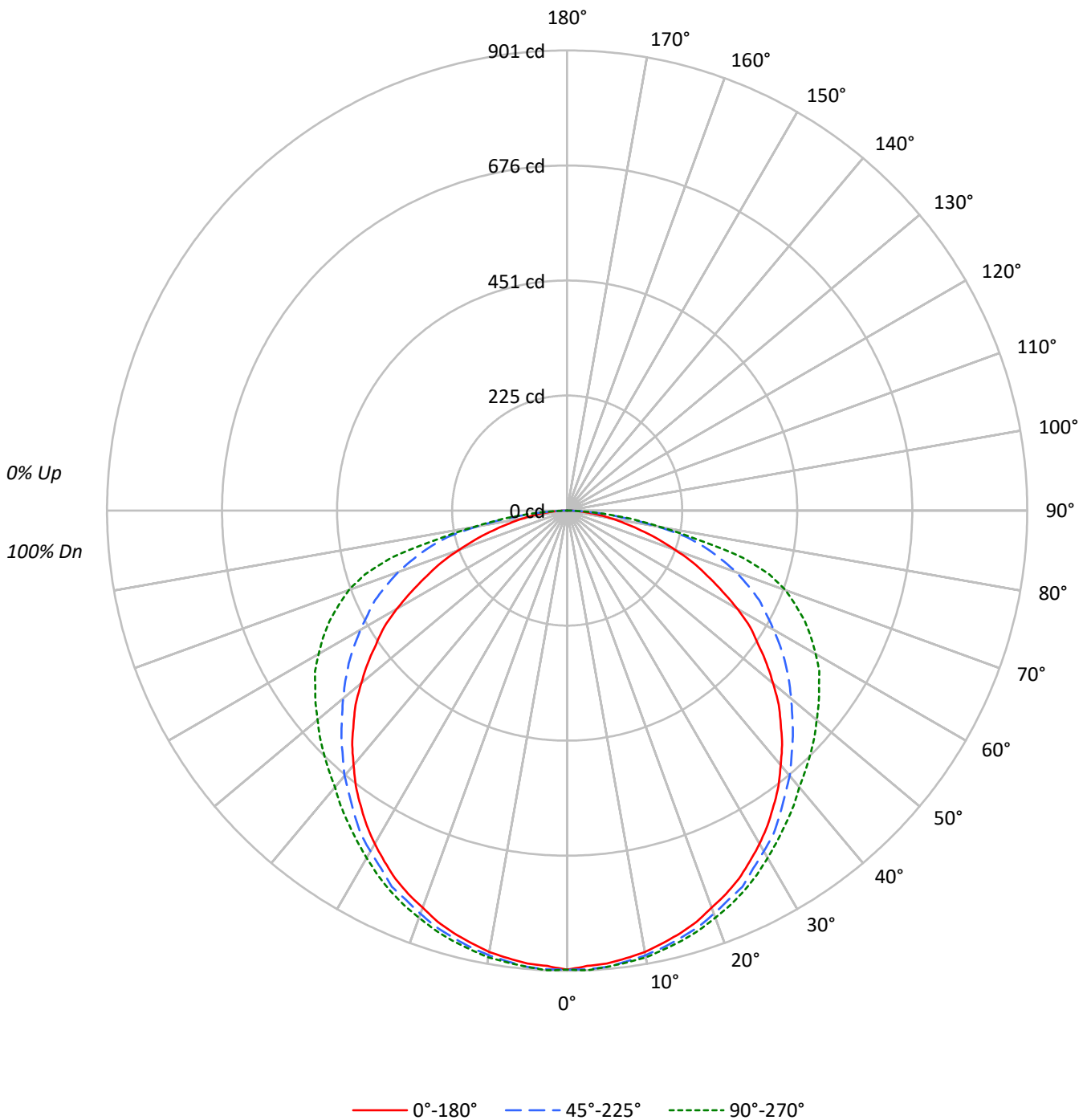
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2419	2419	2419
5°	2405	2422	2422
10°	2398	2416	2427
15°	2387	2410	2428
20°	2369	2405	2429
25°	2362	2412	2437
30°	2341	2394	2440
35°	2316	2386	2455
40°	2285	2381	2484
45°	2251	2379	2563
50°	2203	2397	2670
55°	2143	2449	2824
60°	2073	2515	3025
65°	1930	2641	3270
70°	1772	2766	3578
75°	1553	2910	3698
80°	1337	2772	2903
85°	1170	2016	2211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.0
10°-20°	244.1	8.5
20°-30°	372.4	13.0
30°-40°	454.7	15.9
40°-50°	486.2	17.0
50°-60°	469.3	16.4
60°-70°	404.0	14.1
70°-80°	273.3	9.6
80°-90°	72.1	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°	701.6	24.5
0°-40°	1156.3	40.4
0°-60°	2111.8	73.8
0°-90°	2861.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	890	892	897	897	897	85
15°	857	859	865	869	871	242
25°	796	800	812	817	821	366
35°	705	711	726	741	747	441
45°	592	602	625	657	674	457
55°	457	472	522	575	602	409
65°	303	333	415	480	514	301
75°	149	198	280	337	356	160
85°	38	53	65	67	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.8	898.8	898.8	898.8	898.8
2.5°	892.5	894.6	898.8	898.8	900.9
5°	890.4	892.5	896.7	896.7	896.7
7.5°	884.0	886.2	890.4	892.5	892.5
10°	877.7	879.8	884.0	886.2	888.3
12.5°	867.2	869.3	875.6	879.8	879.8
15°	856.7	858.8	865.1	869.3	871.4
17.5°	844.1	848.3	854.6	858.8	860.9
20°	827.2	831.4	839.8	846.2	848.3
22.5°	812.5	816.7	825.1	831.4	835.6
25°	795.6	799.9	812.5	816.7	820.9
27.5°	774.6	778.8	789.3	797.7	804.1
30°	753.5	757.8	770.4	780.9	785.1
32.5°	730.4	736.7	751.4	759.9	766.2
35°	705.1	711.4	726.2	740.9	747.2
37.5°	679.9	686.2	700.9	719.9	728.3
40°	650.4	658.8	677.8	703.0	707.2
42.5°	623.0	633.6	650.4	679.9	690.4
45°	591.5	602.0	625.1	656.7	673.6
47.5°	562.0	572.5	597.8	635.7	656.7
50°	526.2	541.0	572.5	616.7	637.8
52.5°	492.5	505.2	547.3	595.7	620.9
55°	456.8	471.5	522.0	574.6	602.0
57.5°	425.2	437.8	494.6	553.6	585.2
60°	385.2	402.0	467.3	530.4	562.0
62.5°	343.1	368.4	439.9	505.2	538.8
65°	303.1	332.6	414.7	479.9	513.6
67.5°	267.3	298.9	383.1	452.5	484.1
70°	225.2	265.2	351.5	418.9	454.7
72.5°	187.3	231.5	315.7	383.1	414.7
75°	149.4	197.9	279.9	336.8	355.7
77.5°	115.8	162.1	240.0	256.8	258.9
80°	86.3	128.4	178.9	181.0	187.3
82.5°	58.9	90.5	115.8	126.3	128.4
85°	37.9	52.6	65.3	67.4	71.6
87.5°	16.8	18.9	23.2	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)