

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: P390366

Luminaire Tested: **22CZ2-44VHE-HRP-UNV-L950-CD1-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: P390366
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: 22CZ2-44VHE-HRP-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469.3 lumens
Efficiency: N/A
Efficacy: 106.4 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

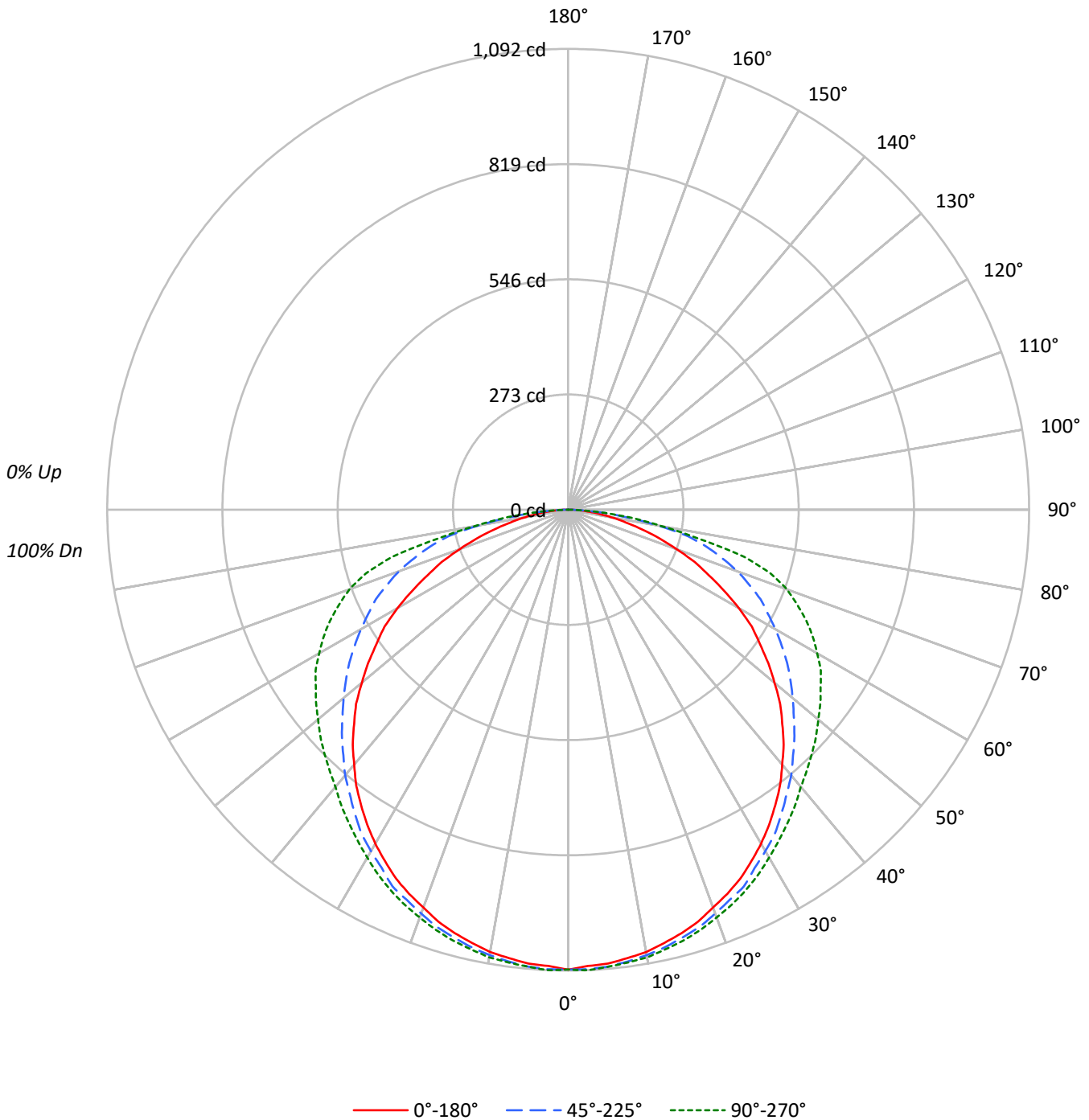
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2933	2933	2933
5°	2916	2937	2937
10°	2908	2929	2943
15°	2894	2922	2944
20°	2872	2916	2945
25°	2864	2925	2955
30°	2839	2903	2958
35°	2809	2893	2976
40°	2770	2887	3012
45°	2729	2885	3108
50°	2671	2906	3237
55°	2598	2969	3424
60°	2513	3049	3667
65°	2340	3202	3965
70°	2149	3353	4338
75°	1884	3529	4484
80°	1621	3361	3519
85°	1417	2442	2680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.0
10°-20°	296.0	8.5
20°-30°	451.6	13.0
30°-40°	551.4	15.9
40°-50°	589.5	17.0
50°-60°	569.0	16.4
60°-70°	489.8	14.1
70°-80°	331.4	9.6
80°-90°	87.5	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°	850.6	24.5
0°-40°	1402.0	40.4
0°-60°	2560.6	73.8
0°-90°	3469.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1080	1082	1087	1087	1087	103
15°	1039	1041	1049	1054	1057	293
25°	965	970	985	990	995	444
35°	855	863	880	898	906	535
45°	717	730	758	796	817	554
55°	554	572	633	697	730	496
65°	368	403	503	582	623	365
75°	181	240	339	408	431	194
85°	46	64	79	82	87	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.8	1089.8	1089.8	1089.8	1089.8
2.5°	1082.1	1084.7	1089.8	1089.8	1092.3
5°	1079.6	1082.1	1087.2	1087.2	1087.2
7.5°	1071.9	1074.5	1079.6	1082.1	1082.1
10°	1064.2	1066.8	1071.9	1074.5	1077.0
12.5°	1051.5	1054.0	1061.7	1066.8	1066.8
15°	1038.7	1041.3	1048.9	1054.0	1056.6
17.5°	1023.4	1028.5	1036.2	1041.3	1043.8
20°	1003.0	1008.1	1018.3	1026.0	1028.5
22.5°	985.1	990.2	1000.4	1008.1	1013.2
25°	964.7	969.8	985.1	990.2	995.3
27.5°	939.2	944.3	957.1	967.3	974.9
30°	913.7	918.8	934.1	946.8	952.0
32.5°	885.6	893.3	911.1	921.3	929.0
35°	855.0	862.6	880.5	898.4	906.0
37.5°	824.3	832.0	849.9	872.8	883.0
40°	788.6	798.8	821.8	852.4	857.5
42.5°	755.4	768.2	788.6	824.3	837.1
45°	717.2	729.9	758.0	796.3	816.7
47.5°	681.4	694.2	724.8	770.7	796.3
50°	638.0	655.9	694.2	747.8	773.3
52.5°	597.2	612.5	663.6	722.3	752.9
55°	553.8	571.7	632.9	696.7	729.9
57.5°	515.5	530.8	599.8	671.2	709.5
60°	467.0	487.5	566.6	643.1	681.4
62.5°	416.0	446.6	533.4	612.5	653.4
65°	367.5	403.2	502.8	581.9	622.7
67.5°	324.1	362.4	464.5	548.7	587.0
70°	273.1	321.6	426.2	507.9	551.3
72.5°	227.1	280.7	382.8	464.5	502.8
75°	181.2	239.9	339.4	408.3	431.3
77.5°	140.4	196.5	290.9	311.4	313.9
80°	104.6	155.7	216.9	219.5	227.1
82.5°	71.5	109.7	140.4	153.1	155.7
85°	45.9	63.8	79.1	81.7	86.8
87.5°	20.4	23.0	28.1	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)