

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: P387484

Luminaire Tested: **14CZ2-39-SQR-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: P387484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-580-2)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-SQR-UNV-L935-CD1-SWPD1-U
Description: 1x4 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

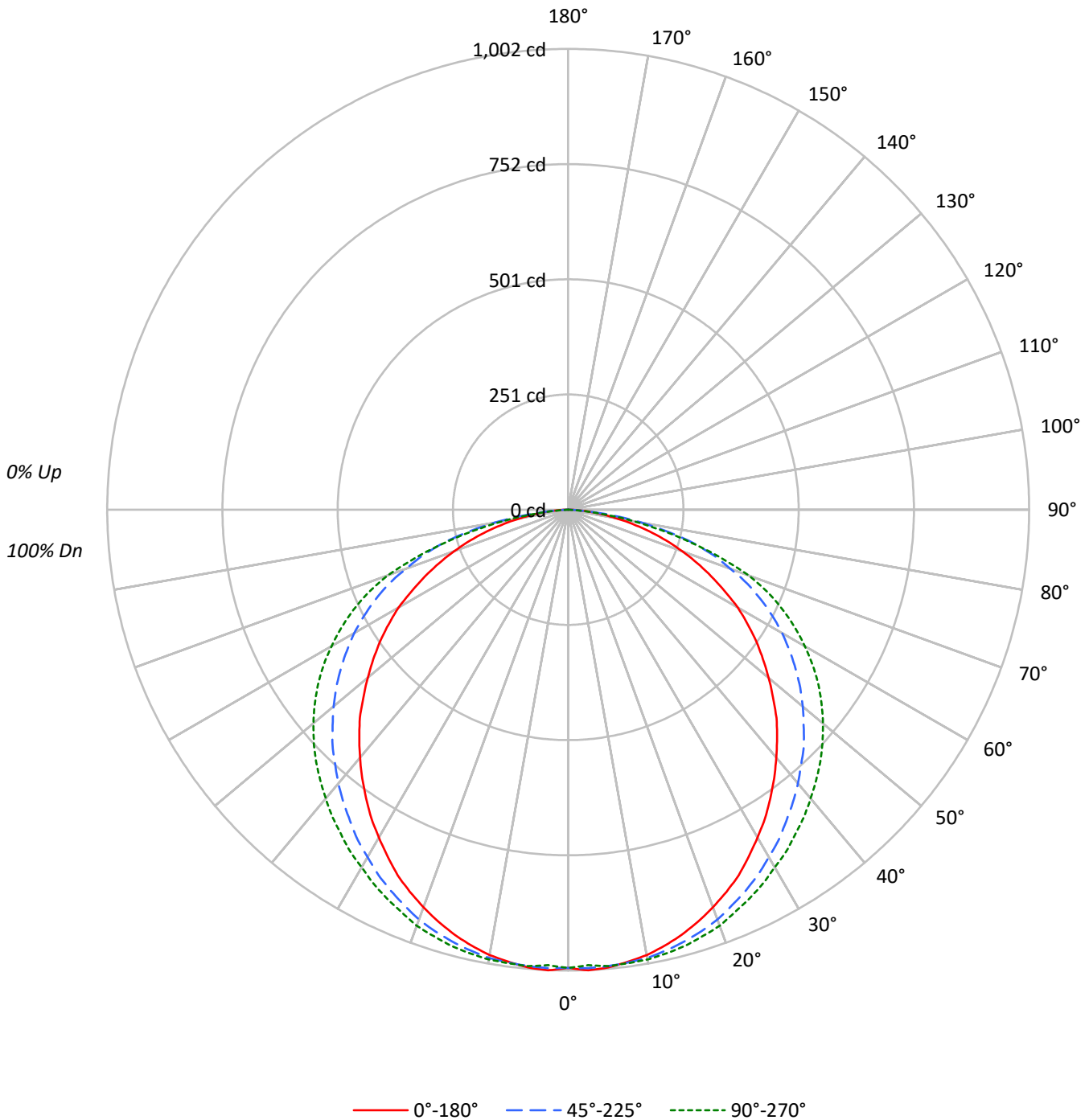
Input Watts (W): 32.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2681	2681	2681
5°	2699	2691	2691
10°	2687	2705	2713
15°	2664	2709	2735
20°	2634	2716	2757
25°	2604	2712	2769
30°	2557	2710	2789
35°	2516	2714	2829
40°	2472	2729	2880
45°	2437	2757	2950
50°	2381	2787	3026
55°	2341	2832	3116
60°	2292	2890	3198
65°	2185	2944	3278
70°	2075	2950	3275
75°	1900	2940	2890
80°	1626	2512	2241
85°	1275	1423	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.0
10°-20°	273.5	8.7
20°-30°	418.2	13.3
30°-40°	512.6	16.3
40°-50°	551.3	17.5
50°-60°	529.8	16.8
60°-70°	441.1	14.0
70°-80°	270.7	8.6
80°-90°	60.3	1.9
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°	786.4	24.9
0°-40°	1299.0	41.2
0°-60°	2380.1	75.5
0°-90°	3152.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	999	990	996	996	996	95
15°	956	953	972	979	982	270
25°	877	885	914	925	933	403
35°	766	785	826	848	861	479
45°	640	669	724	758	775	493
55°	499	542	604	645	664	446
65°	343	396	462	500	515	340
75°	183	238	283	281	278	194
85°	41	62	46	32	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.2	996.2	996.2	996.2	996.2
2.5°	1002.5	993.0	997.7	996.2	991.4
5°	999.3	989.8	996.2	996.2	996.2
7.5°	991.4	983.4	993.0	994.6	994.6
10°	983.4	977.1	989.8	991.4	993.0
12.5°	970.7	966.0	981.9	985.0	988.2
15°	956.4	953.3	972.3	978.7	981.9
17.5°	939.0	940.5	961.2	969.1	972.3
20°	919.9	924.7	948.5	956.4	962.8
22.5°	899.2	905.6	931.0	940.5	946.9
25°	877.0	884.9	913.5	924.7	932.6
27.5°	850.0	862.7	894.5	908.8	916.7
30°	823.0	837.3	872.2	889.7	897.7
32.5°	796.0	811.9	851.6	869.1	881.8
35°	765.8	784.8	826.2	848.4	861.1
37.5°	735.6	757.8	802.3	827.7	842.0
40°	703.8	727.7	776.9	805.5	819.8
42.5°	672.0	699.1	749.9	781.7	797.6
45°	640.3	668.9	724.5	757.8	775.3
47.5°	603.7	638.7	694.3	732.4	749.9
50°	568.8	606.9	665.7	705.4	722.9
52.5°	533.8	573.5	635.5	676.8	694.3
55°	498.9	541.8	603.7	645.0	664.1
57.5°	462.3	506.8	570.4	613.3	630.7
60°	425.8	471.9	537.0	576.7	594.2
62.5°	382.9	436.9	500.5	540.2	556.1
65°	343.2	395.6	462.3	500.5	514.8
67.5°	303.5	357.5	422.6	457.6	470.3
70°	263.7	317.8	374.9	408.3	416.3
72.5°	224.0	278.0	332.1	351.1	347.9
75°	182.7	238.3	282.8	281.2	278.0
77.5°	143.0	197.0	224.0	212.9	208.1
80°	104.9	157.3	162.1	150.9	144.6
82.5°	71.5	112.8	101.7	89.0	82.6
85°	41.3	62.0	46.1	31.8	27.0
87.5°	17.5	15.9	4.8	4.8	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)