

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: P387504

Luminaire Tested: **14CZ2-39HE-SQR-UNV-L930-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: P387504
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: 14CZ2-39HE-SQR-UNV-L930-CD1-SDWPD1-U
Description: 1x4 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3065.4 lumens
Efficiency: N/A
Efficacy: 104.6 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

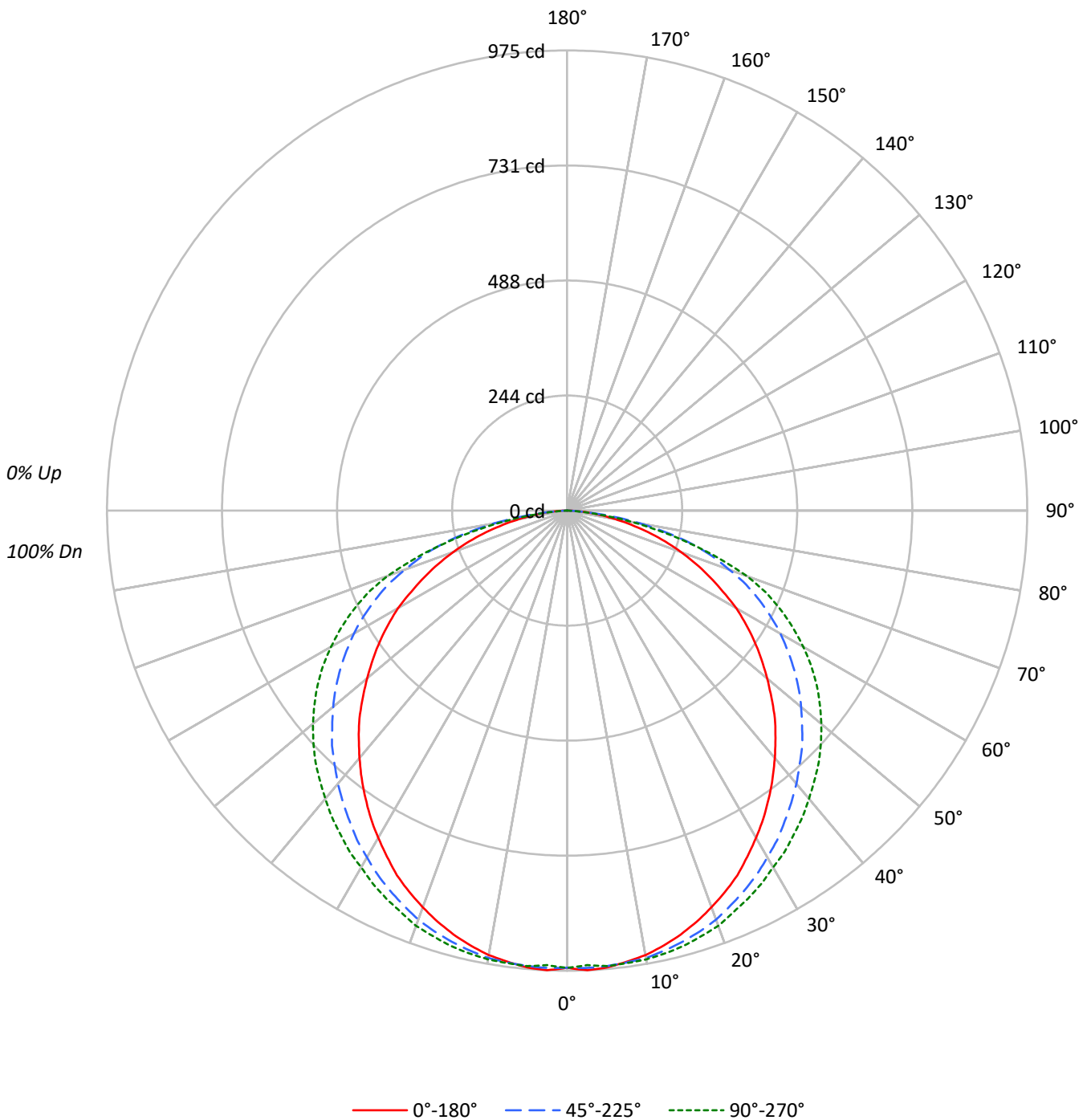
Input Watts (W): 29.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2607	2607	2607
5°	2625	2617	2617
10°	2613	2630	2638
15°	2591	2634	2660
20°	2562	2641	2681
25°	2532	2638	2693
30°	2487	2636	2712
35°	2446	2639	2751
40°	2404	2654	2800
45°	2369	2681	2869
50°	2316	2710	2943
55°	2276	2754	3030
60°	2229	2810	3110
65°	2125	2863	3188
70°	2018	2869	3185
75°	1848	2859	2811
80°	1581	2442	2179
85°	1241	1383	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.0
10°-20°	265.9	8.7
20°-30°	406.7	13.3
30°-40°	498.5	16.3
40°-50°	536.1	17.5
50°-60°	515.2	16.8
60°-70°	429.0	14.0
70°-80°	263.3	8.6
80°-90°	58.7	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°	764.7	24.9
0°-40°	1263.2	41.2
0°-60°	2314.5	75.5
0°-90°	3065.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	972	962	969	969	969	92
15°	930	927	946	952	955	262
25°	853	860	888	899	907	392
35°	745	763	803	825	837	466
45°	623	650	704	737	754	479
55°	485	527	587	627	646	433
65°	334	385	450	487	501	331
75°	178	232	275	274	270	188
85°	40	60	45	31	26	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.7	968.7	968.7	968.7	968.7
2.5°	974.9	965.6	970.2	968.7	964.1
5°	971.8	962.5	968.7	968.7	968.7
7.5°	964.1	956.3	965.6	967.1	967.1
10°	956.3	950.2	962.5	964.1	965.6
12.5°	944.0	939.3	954.8	957.9	961.0
15°	930.1	927.0	945.5	951.7	954.8
17.5°	913.1	914.6	934.7	942.4	945.5
20°	894.5	899.2	922.3	930.1	936.2
22.5°	874.5	880.6	905.3	914.6	920.8
25°	852.8	860.5	888.4	899.2	906.9
27.5°	826.6	838.9	869.8	883.7	891.4
30°	800.3	814.2	848.2	865.2	872.9
32.5°	774.0	789.5	828.1	845.1	857.5
35°	744.7	763.2	803.4	825.0	837.4
37.5°	715.3	736.9	780.2	804.9	818.8
40°	684.4	707.6	755.5	783.3	797.2
42.5°	653.5	679.8	729.2	760.1	775.6
45°	622.6	650.4	704.5	736.9	753.9
47.5°	587.1	621.1	675.1	712.2	729.2
50°	553.1	590.2	647.3	686.0	703.0
52.5°	519.1	557.7	618.0	658.2	675.1
55°	485.1	526.8	587.1	627.3	645.8
57.5°	449.6	492.8	554.6	596.4	613.4
60°	414.1	458.9	522.2	560.8	577.8
62.5°	372.3	424.9	486.7	525.3	540.7
65°	333.7	384.7	449.6	486.7	500.6
67.5°	295.1	347.6	411.0	444.9	457.3
70°	256.5	309.0	364.6	397.1	404.8
72.5°	217.8	270.4	322.9	341.4	338.3
75°	177.7	231.7	275.0	273.5	270.4
77.5°	139.0	191.6	217.8	207.0	202.4
80°	102.0	153.0	157.6	146.8	140.6
82.5°	69.5	109.7	98.9	86.5	80.3
85°	40.2	60.3	44.8	30.9	26.3
87.5°	17.0	15.4	4.6	4.6	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)