

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: P275432

Luminaire Tested: **14CZ2-29-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2708.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

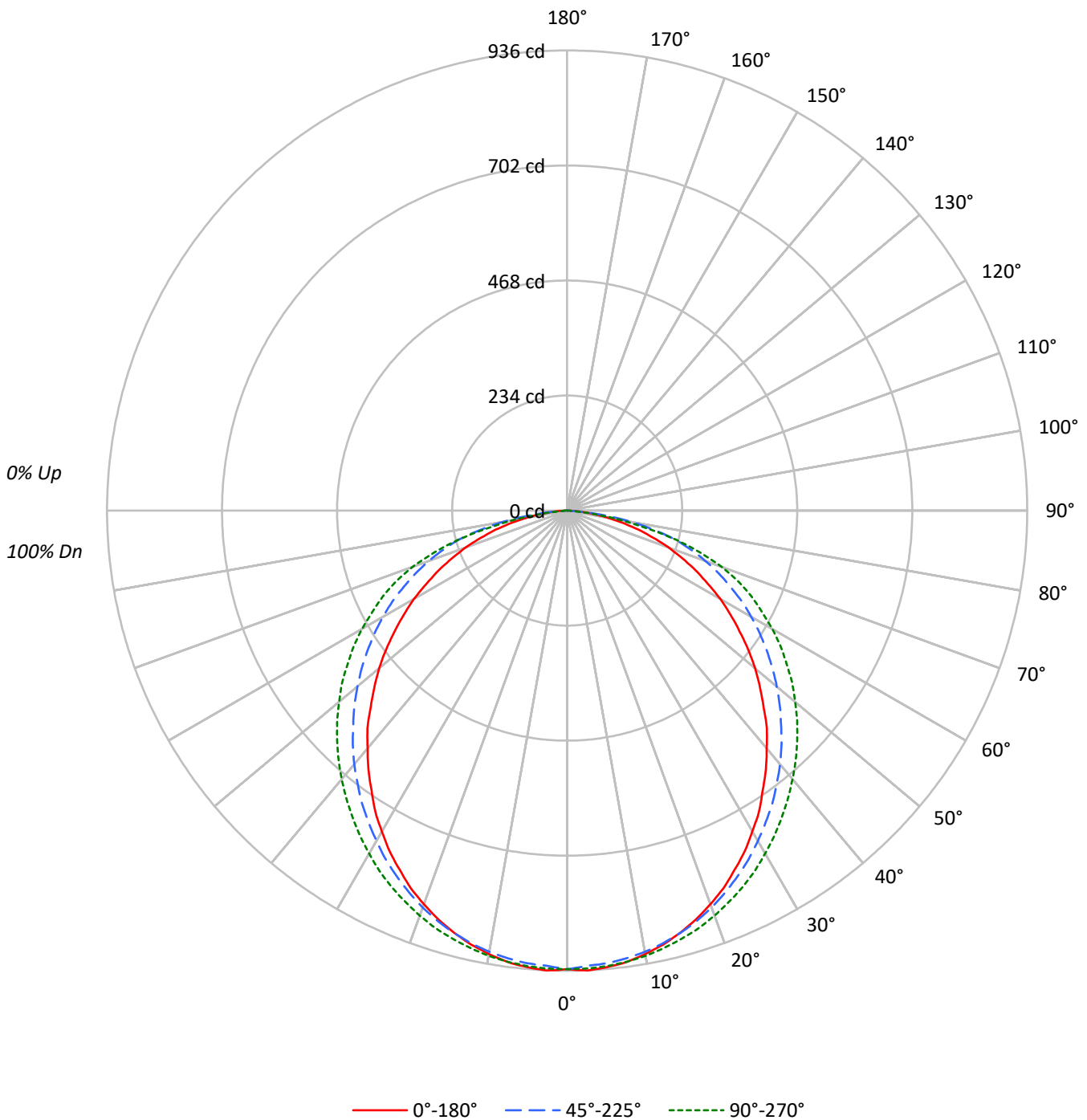
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2510	2510	2510
5°	2518	2497	2512
10°	2503	2490	2513
15°	2476	2478	2511
20°	2440	2460	2511
25°	2393	2436	2508
30°	2342	2411	2503
35°	2279	2390	2501
40°	2219	2367	2505
45°	2151	2342	2519
50°	2088	2331	2535
55°	2008	2323	2558
60°	1937	2327	2594
65°	1838	2334	2634
70°	1725	2352	2632
75°	1564	2373	2380
80°	1282	2049	1694
85°	951	969	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.3
10°-20°	252.2	9.3
20°-30°	379.9	14.0
30°-40°	455.9	16.8
40°-50°	475.1	17.5
50°-60°	439.9	16.2
60°-70°	355.4	13.1
70°-80°	216.7	8.0
80°-90°	44.7	1.7
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°	720.3	26.6
0°-40°	1176.2	43.4
0°-60°	2091.2	77.2
0°-90°	2708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	932	930	924	931	930	88
15°	889	889	889	902	902	251
25°	806	811	821	841	845	372
35°	694	705	728	754	761	435
45°	565	582	615	650	662	437
55°	428	450	495	534	545	384
65°	289	317	366	403	414	285
75°	150	184	228	232	229	158
85°	31	46	31	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.9	932.9	932.9	932.9	932.9
2.5°	936.5	933.5	926.9	933.5	932.3
5°	932.3	929.9	924.5	931.1	929.9
7.5°	926.3	923.9	919.0	926.9	925.7
10°	916.0	914.8	911.2	920.2	919.6
12.5°	903.9	903.3	901.5	911.8	911.2
15°	888.8	889.4	889.4	901.5	901.5
17.5°	871.9	873.1	875.6	888.8	890.6
20°	852.0	854.4	859.2	874.3	876.8
22.5°	831.5	833.3	840.5	858.6	861.1
25°	806.1	810.9	820.6	841.1	844.8
27.5°	782.0	786.2	799.5	820.6	826.6
30°	753.6	760.2	775.9	798.9	805.5
32.5°	726.4	733.7	751.8	778.3	784.4
35°	693.8	704.7	727.6	754.2	761.4
37.5°	664.2	674.5	700.4	729.4	737.9
40°	631.6	644.3	673.9	704.7	713.1
42.5°	601.4	613.5	645.5	676.9	688.4
45°	565.2	582.1	615.3	649.7	661.8
47.5°	532.0	548.9	586.9	623.8	634.6
50°	498.8	516.9	556.7	594.8	605.6
52.5°	464.3	483.7	526.5	564.6	577.3
55°	428.1	450.5	495.1	533.8	545.3
57.5°	393.7	416.6	464.3	503.6	515.1
60°	359.9	383.4	432.3	469.8	481.9
62.5°	322.4	350.2	400.9	437.8	446.8
65°	288.6	317.0	366.5	403.4	413.6
67.5°	253.0	283.8	333.3	367.1	376.8
70°	219.2	251.2	298.9	330.3	334.5
72.5°	183.0	215.6	263.9	283.8	283.8
75°	150.4	183.6	228.2	231.9	228.9
77.5°	114.7	151.6	180.5	173.3	166.1
80°	82.7	119.0	132.2	119.0	109.3
82.5°	55.6	86.3	79.7	63.4	56.2
85°	30.8	45.9	31.4	17.5	12.7
87.5°	11.5	10.3	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)