

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: P275400

Luminaire Tested: **14CZ2-29-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275400
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3044.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

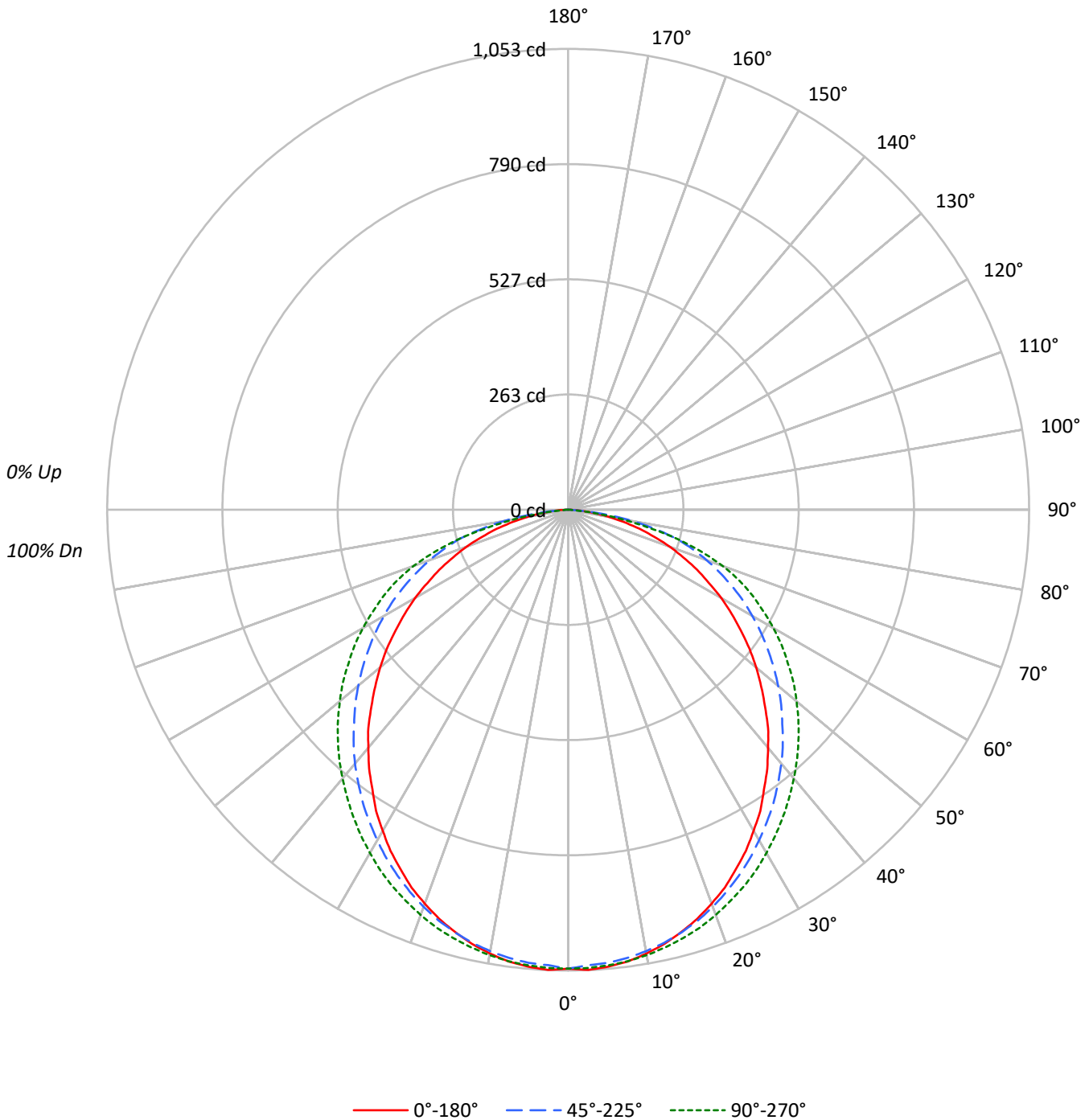
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2822	2822	2822
5°	2831	2807	2824
10°	2814	2799	2825
15°	2783	2785	2823
20°	2743	2766	2822
25°	2690	2739	2820
30°	2632	2710	2814
35°	2562	2687	2812
40°	2494	2661	2816
45°	2418	2632	2831
50°	2347	2620	2850
55°	2258	2611	2875
60°	2177	2616	2915
65°	2066	2623	2960
70°	1939	2644	2958
75°	1757	2668	2674
80°	1441	2303	1905
85°	1068	1090	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.3
10°-20°	283.5	9.3
20°-30°	427.0	14.0
30°-40°	512.4	16.8
40°-50°	534.1	17.5
50°-60°	494.4	16.2
60°-70°	399.5	13.1
70°-80°	243.6	8.0
80°-90°	50.3	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°	809.7	26.6
0°-40°	1322.1	43.4
0°-60°	2350.6	77.2
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1048	1045	1039	1047	1045	99
15°	999	1000	1000	1013	1013	282
25°	906	912	922	946	950	418
35°	780	792	818	848	856	489
45°	635	654	692	730	744	491
55°	481	506	557	600	613	431
65°	324	356	412	453	465	321
75°	169	206	257	261	257	178
85°	35	52	35	20	14	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.7	1048.7	1048.7	1048.7	1048.7
2.5°	1052.7	1049.3	1041.9	1049.3	1048.0
5°	1048.0	1045.3	1039.2	1046.6	1045.3
7.5°	1041.2	1038.5	1033.1	1041.9	1040.5
10°	1029.7	1028.3	1024.2	1034.4	1033.7
12.5°	1016.1	1015.4	1013.4	1024.9	1024.2
15°	999.1	999.8	999.8	1013.4	1013.4
17.5°	980.1	981.5	984.2	999.1	1001.2
20°	957.7	960.4	965.9	982.8	985.5
22.5°	934.6	936.7	944.8	965.2	967.9
25°	906.1	911.6	922.4	945.5	949.6
27.5°	879.0	883.7	898.7	922.4	929.2
30°	847.1	854.5	872.2	898.0	905.5
32.5°	816.5	824.7	845.0	874.9	881.7
35°	779.9	792.1	817.9	847.8	855.9
37.5°	746.6	758.2	787.3	819.9	829.4
40°	710.0	724.2	757.5	792.1	801.6
42.5°	676.0	689.6	725.6	760.9	773.8
45°	635.3	654.3	691.6	730.3	743.9
47.5°	598.0	617.0	659.7	701.1	713.4
50°	560.6	581.0	625.8	668.6	680.8
52.5°	522.0	543.7	591.9	634.6	648.9
55°	481.2	506.3	556.6	600.0	612.9
57.5°	442.5	468.3	522.0	566.1	579.0
60°	404.5	431.0	486.0	528.1	541.6
62.5°	362.5	393.7	450.7	492.1	502.3
65°	324.4	356.3	412.0	453.4	464.9
67.5°	284.4	319.0	374.7	412.7	423.5
70°	246.4	282.4	336.0	371.3	376.0
72.5°	205.7	242.3	296.6	319.0	319.0
75°	169.0	206.3	256.6	260.6	257.2
77.5°	129.0	170.4	202.9	194.8	186.7
80°	93.0	133.7	148.6	133.7	122.9
82.5°	62.4	97.1	89.6	71.3	63.1
85°	34.6	51.6	35.3	19.7	14.3
87.5°	12.9	11.5	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)