

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: P275398

Luminaire Tested: **14CZ2-29-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275398
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2739.0 lumens
Efficiency: N/A
Efficacy: 123.7 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

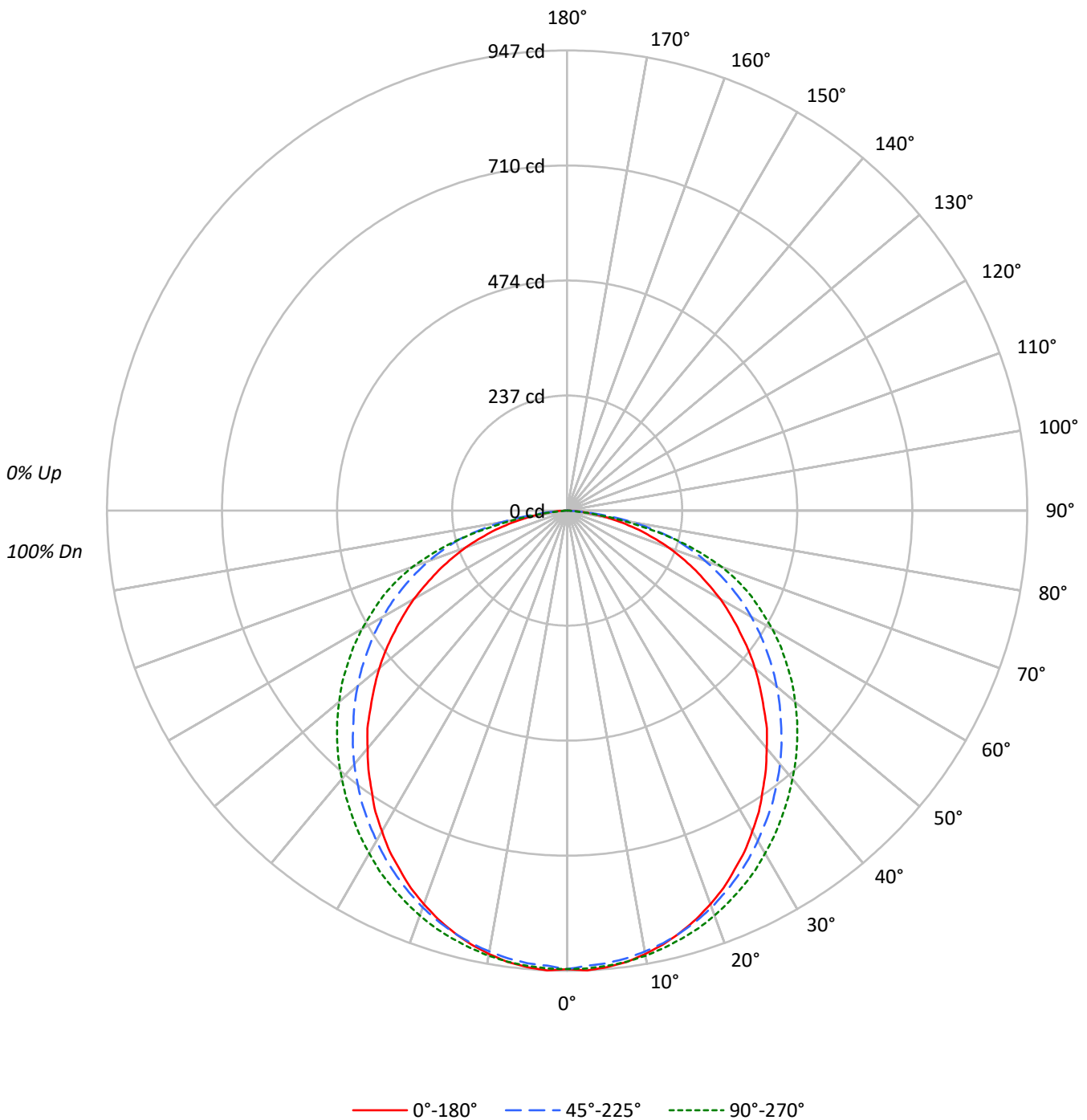
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2539	2539	2539
5°	2547	2526	2541
10°	2532	2518	2542
15°	2505	2506	2540
20°	2468	2489	2540
25°	2421	2464	2537
30°	2368	2439	2531
35°	2305	2417	2530
40°	2244	2394	2534
45°	2176	2368	2547
50°	2112	2357	2565
55°	2031	2350	2587
60°	1959	2354	2623
65°	1859	2360	2664
70°	1744	2378	2662
75°	1581	2401	2407
80°	1297	2073	1712
85°	960	982	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.3
10°-20°	255.1	9.3
20°-30°	384.2	14.0
30°-40°	461.1	16.8
40°-50°	480.6	17.5
50°-60°	444.9	16.2
60°-70°	359.5	13.1
70°-80°	219.2	8.0
80°-90°	45.3	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°	728.6	26.6
0°-40°	1189.6	43.4
0°-60°	2115.1	77.2
0°-90°	2739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	943	940	935	942	940	90
15°	899	900	900	912	912	253
25°	815	820	830	851	854	376
35°	702	713	736	763	770	440
45°	572	589	622	657	669	442
55°	433	456	501	540	552	388
65°	292	321	371	408	418	289
75°	152	186	231	234	232	160
85°	31	46	32	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.6	943.6	943.6	943.6	943.6
2.5°	947.3	944.2	937.5	944.2	943.0
5°	943.0	940.5	935.0	941.8	940.5
7.5°	936.9	934.4	929.5	937.5	936.3
10°	926.5	925.3	921.6	930.8	930.2
12.5°	914.3	913.7	911.8	922.2	921.6
15°	899.0	899.6	899.6	911.8	911.8
17.5°	881.9	883.1	885.6	899.0	900.8
20°	861.8	864.2	869.1	884.4	886.8
22.5°	841.0	842.8	850.2	868.5	870.9
25°	815.3	820.2	830.0	850.8	854.4
27.5°	790.9	795.2	808.6	830.0	836.1
30°	762.2	768.9	784.8	808.0	814.7
32.5°	734.7	742.0	760.4	787.2	793.4
35°	701.7	712.7	735.9	762.8	770.1
37.5°	671.8	682.2	708.5	737.8	746.3
40°	638.8	651.7	681.6	712.7	721.3
42.5°	608.3	620.5	652.9	684.6	696.2
45°	571.7	588.8	622.3	657.2	669.4
47.5°	538.1	555.2	593.6	630.9	641.9
50°	504.5	522.8	563.1	601.6	612.6
52.5°	469.7	489.2	532.6	571.0	583.9
55°	433.0	455.6	500.8	539.9	551.5
57.5°	398.2	421.4	469.7	509.4	521.0
60°	364.0	387.8	437.3	475.2	487.4
62.5°	326.1	354.2	405.5	442.8	451.9
65°	291.9	320.6	370.7	408.0	418.4
67.5°	255.9	287.0	337.1	371.3	381.1
70°	221.7	254.1	302.3	334.1	338.4
72.5°	185.1	218.0	266.9	287.0	287.0
75°	152.1	185.7	230.9	234.5	231.5
77.5°	116.0	153.3	182.6	175.3	168.0
80°	83.7	120.3	133.8	120.3	110.5
82.5°	56.2	87.3	80.6	64.1	56.8
85°	31.1	46.4	31.8	17.7	12.8
87.5°	11.6	10.4	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)