

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: P275448

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275448
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: 14CZ2-20-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

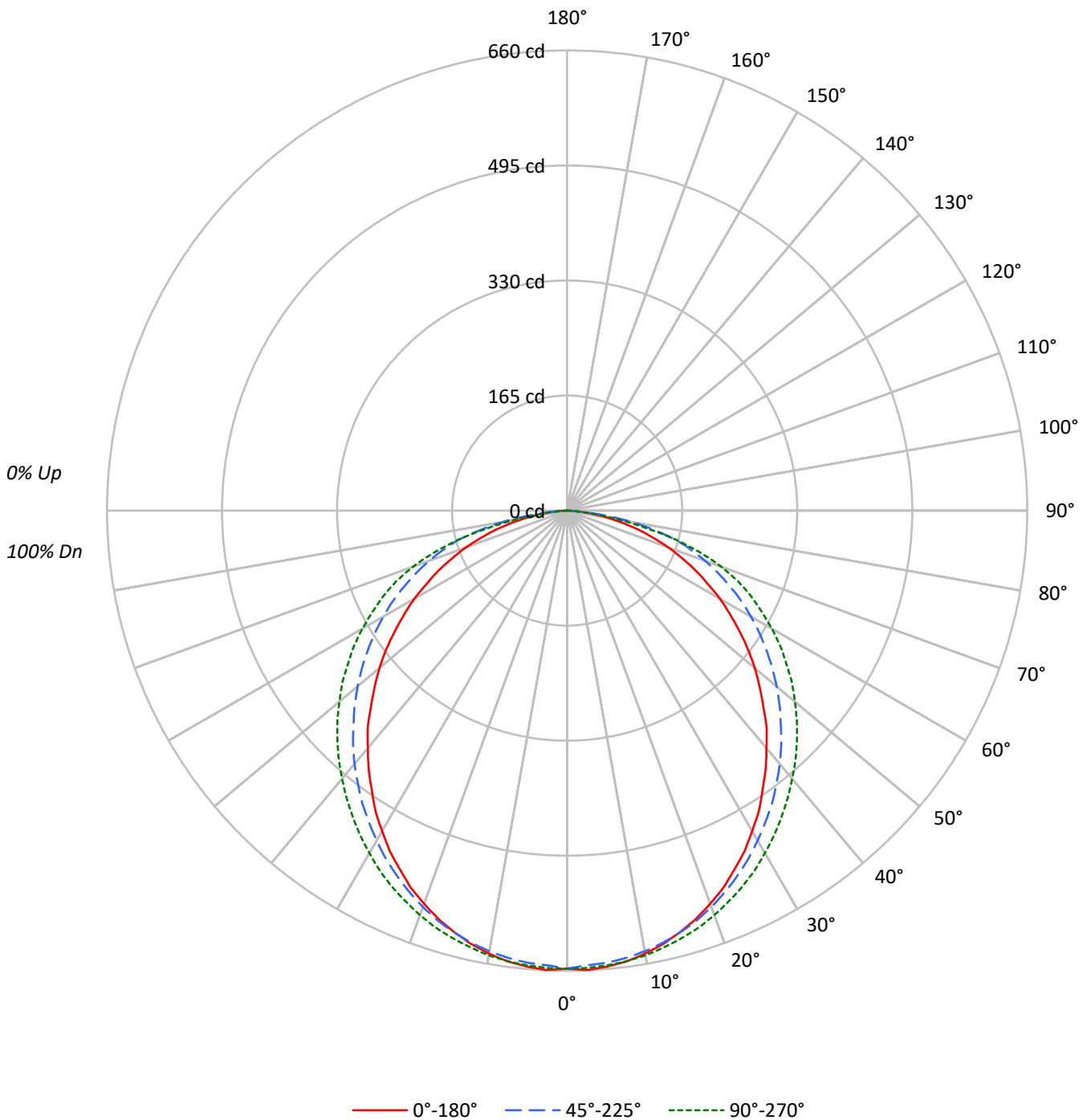
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1768	1768	1768
5°	1773	1759	1769
10°	1763	1753	1770
15°	1744	1745	1769
20°	1718	1733	1768
25°	1686	1716	1766
30°	1649	1698	1762
35°	1605	1683	1761
40°	1563	1667	1764
45°	1515	1649	1773
50°	1470	1641	1786
55°	1415	1636	1802
60°	1364	1639	1826
65°	1294	1643	1855
70°	1215	1656	1854
75°	1101	1671	1676
80°	903	1443	1193
85°	670	682	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.3
10°-20°	177.6	9.3
20°-30°	267.5	14.0
30°-40°	321.0	16.8
40°-50°	334.6	17.5
50°-60°	309.8	16.2
60°-70°	250.3	13.1
70°-80°	152.6	8.0
80°-90°	31.5	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°	507.3	26.6
0°-40°	828.3	43.4
0°-60°	1472.6	77.2
0°-90°	1907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	656	655	651	656	655	62
15°	626	626	626	635	635	176
25°	568	571	578	592	595	262
35°	489	496	512	531	536	306
45°	398	410	433	458	466	308
55°	302	317	349	376	384	270
65°	203	223	258	284	291	201
75°	106	129	161	163	161	111
85°	22	32	22	12	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657.0	657.0	657.0	657.0	657.0
2.5°	659.5	657.4	652.7	657.4	656.5
5°	656.5	654.8	651.0	655.7	654.8
7.5°	652.3	650.6	647.2	652.7	651.9
10°	645.1	644.2	641.7	648.0	647.6
12.5°	636.6	636.1	634.9	642.1	641.7
15°	625.9	626.4	626.4	634.9	634.9
17.5°	614.0	614.9	616.6	625.9	627.2
20°	600.0	601.7	605.1	615.7	617.4
22.5°	585.5	586.8	591.9	604.7	606.4
25°	567.7	571.1	577.9	592.3	594.9
27.5°	550.7	553.6	563.0	577.9	582.1
30°	530.7	535.4	546.4	562.6	567.2
32.5°	511.5	516.6	529.4	548.1	552.4
35°	488.6	496.2	512.4	531.1	536.2
37.5°	467.7	475.0	493.3	513.7	519.6
40°	444.8	453.7	474.5	496.2	502.2
42.5°	423.5	432.0	454.6	476.7	484.8
45°	398.0	409.9	433.3	457.5	466.0
47.5°	374.6	386.5	413.3	439.3	446.9
50°	351.2	364.0	392.1	418.8	426.5
52.5°	327.0	340.6	370.8	397.6	406.5
55°	301.5	317.2	348.7	375.9	384.0
57.5°	277.2	293.4	327.0	354.6	362.7
60°	253.4	270.0	304.5	330.8	339.3
62.5°	227.1	246.6	282.3	308.3	314.7
65°	203.3	223.2	258.1	284.0	291.3
67.5°	178.2	199.9	234.7	258.5	265.3
70°	154.4	176.9	210.5	232.6	235.6
72.5°	128.8	151.8	185.8	199.9	199.9
75°	105.9	129.3	160.7	163.3	161.2
77.5°	80.8	106.7	127.1	122.0	116.9
80°	58.3	83.8	93.1	83.8	77.0
82.5°	39.1	60.8	56.1	44.6	39.5
85°	21.7	32.3	22.1	12.3	8.9
87.5°	8.1	7.2	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)