

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: P275511

Luminaire Tested: **14CZ2-25-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275511
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: 14CZ2-25-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1901.0 lumens
Efficiency: N/A
Efficacy: 104.3 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

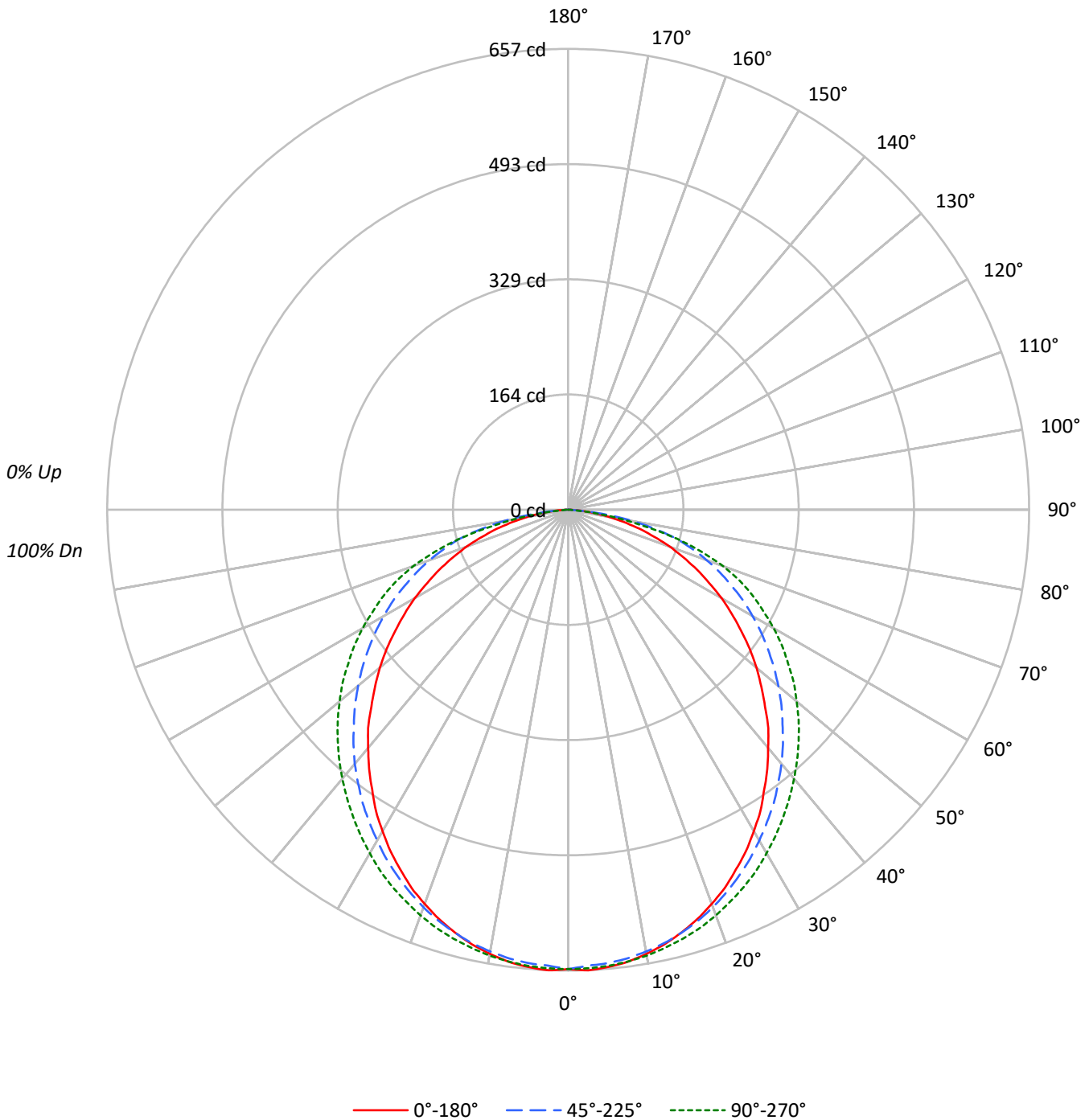
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1762	1762	1762
5°	1768	1753	1763
10°	1757	1748	1764
15°	1738	1740	1763
20°	1713	1727	1763
25°	1680	1711	1761
30°	1644	1693	1757
35°	1600	1678	1756
40°	1558	1662	1759
45°	1510	1644	1768
50°	1466	1636	1780
55°	1410	1631	1796
60°	1359	1633	1821
65°	1290	1638	1849
70°	1211	1651	1847
75°	1097	1666	1671
80°	900	1438	1189
85°	667	679	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.3
10°-20°	177.0	9.3
20°-30°	266.7	14.0
30°-40°	320.0	16.8
40°-50°	333.5	17.5
50°-60°	308.8	16.2
60°-70°	249.5	13.1
70°-80°	152.1	8.0
80°-90°	31.4	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°	505.7	26.6
0°-40°	825.7	43.4
0°-60°	1468.0	77.2
0°-90°	1901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	654	653	649	654	653	62
15°	624	624	624	633	633	176
25°	566	569	576	590	593	261
35°	487	495	511	529	534	305
45°	397	409	432	456	465	307
55°	300	316	348	375	383	269
65°	203	222	257	283	290	200
75°	106	129	160	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°	654.9	654.9	654.9	654.9	654.9
2.5°	657.4	655.3	650.7	655.3	654.5
5°	654.5	652.8	649.0	653.6	652.8
7.5°	650.2	648.5	645.2	650.7	649.8
10°	643.0	642.2	639.6	646.0	645.6
12.5°	634.6	634.1	632.9	640.1	639.6
15°	624.0	624.4	624.4	632.9	632.9
17.5°	612.1	612.9	614.6	624.0	625.2
20°	598.1	599.8	603.2	613.8	615.5
22.5°	583.7	585.0	590.0	602.8	604.5
25°	565.9	569.3	576.1	590.5	593.0
27.5°	548.9	551.9	561.2	576.1	580.3
30°	529.0	533.7	544.7	560.8	565.5
32.5°	509.9	515.0	527.7	546.4	550.6
35°	487.0	494.7	510.8	529.4	534.5
37.5°	466.3	473.5	491.7	512.1	518.0
40°	443.4	452.3	473.1	494.7	500.6
42.5°	422.2	430.7	453.1	475.2	483.2
45°	396.8	408.6	431.9	456.1	464.6
47.5°	373.4	385.3	412.0	437.9	445.5
50°	350.1	362.8	390.8	417.5	425.2
52.5°	326.0	339.5	369.6	396.3	405.2
55°	300.5	316.2	347.6	374.7	382.8
57.5°	276.4	292.5	326.0	353.5	361.6
60°	252.6	269.2	303.5	329.8	338.3
62.5°	226.4	245.9	281.5	307.3	313.7
65°	202.6	222.5	257.3	283.2	290.4
67.5°	177.6	199.2	234.0	257.7	264.5
70°	153.9	176.3	209.8	231.9	234.8
72.5°	128.4	151.3	185.2	199.2	199.2
75°	105.5	128.9	160.2	162.8	160.7
77.5°	80.5	106.4	126.7	121.7	116.6
80°	58.1	83.5	92.8	83.5	76.7
82.5°	39.0	60.6	56.0	44.5	39.4
85°	21.6	32.2	22.0	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)