

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: P275420

Luminaire Tested: **14CZ2-20-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275420
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

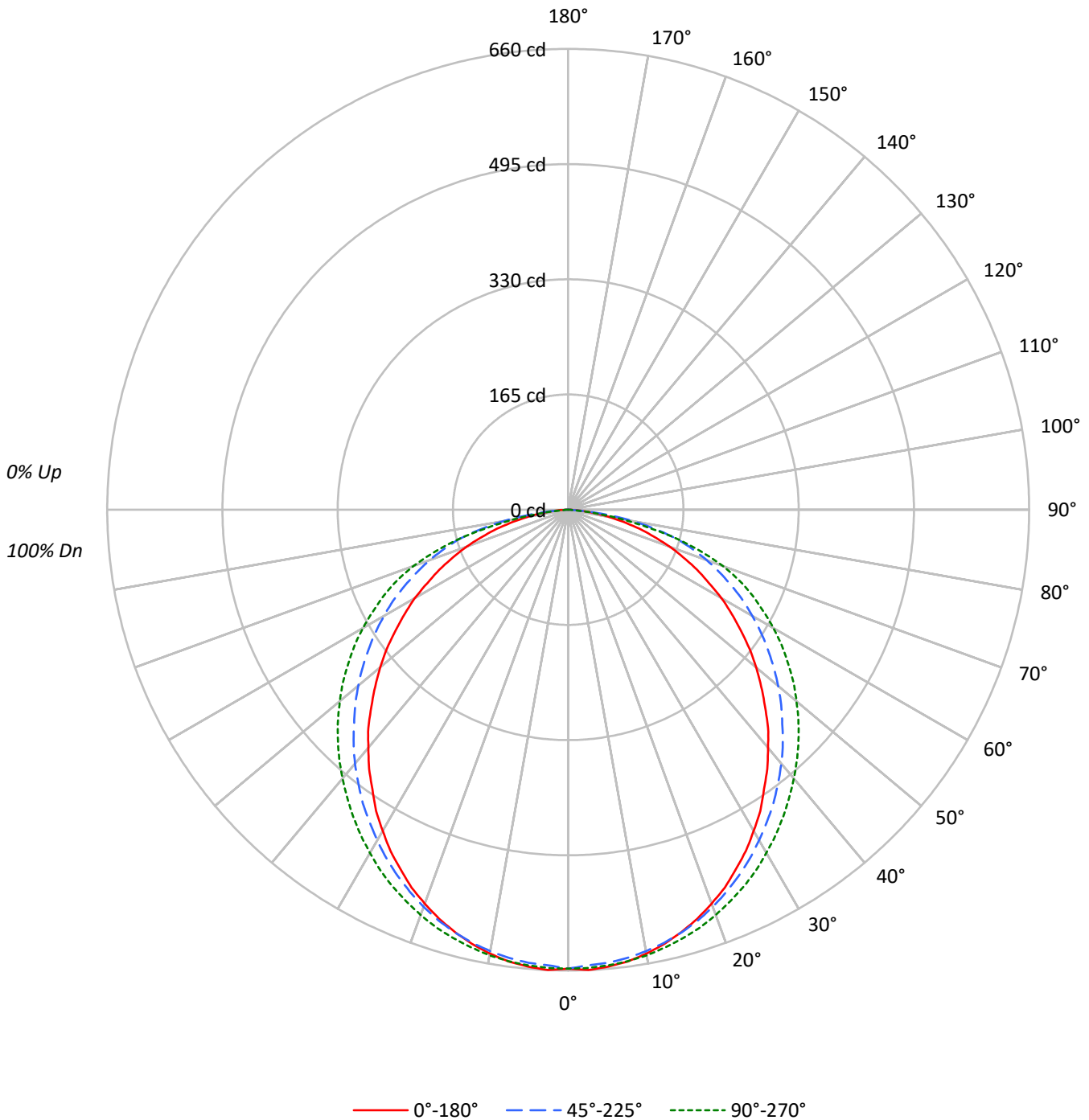
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275420

CATALOG NUMBER: 14CZ2-20-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275420

CATALOG NUMBER: 14CZ2-20-UNV-L93050-W2A1-U-4000K

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°	1769	1769	1769
5°	1774	1760	1770
10°	1764	1754	1771
15°	1745	1746	1770
20°	1719	1734	1769
25°	1686	1717	1767
30°	1650	1699	1763
35°	1606	1684	1762
40°	1563	1668	1765
45°	1515	1650	1775
50°	1471	1642	1786
55°	1415	1637	1803
60°	1365	1639	1827
65°	1295	1644	1855
70°	1215	1657	1854
75°	1101	1672	1676
80°	903	1444	1193
85°	670	682	275



TEST NUMBER: P275420

CATALOG NUMBER: 14CZ2-20-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.3
10°-20°	177.7	9.3
20°-30°	267.7	14.0
30°-40°	321.2	16.8
40°-50°	334.8	17.5
50°-60°	309.9	16.2
60°-70°	250.4	13.1
70°-80°	152.7	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°	507.5	26.6
0°-40°	828.7	43.4
0°-60°	1473.4	77.2
0°-90°	1908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	657	655	651	656	655	62
15°	626	627	627	635	635	177
25°	568	571	578	593	595	262
35°	489	496	513	531	536	306
45°	398	410	434	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	



TEST NUMBER: P275420

CATALOG NUMBER: 14CZ2-20-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657.3	657.3	657.3	657.3	657.3
2.5°	659.9	657.7	653.1	657.7	656.9
5°	656.9	655.2	651.4	656.0	655.2
7.5°	652.6	650.9	647.5	653.1	652.2
10°	645.4	644.5	642.0	648.4	648.0
12.5°	636.9	636.5	635.2	642.4	642.0
15°	626.3	626.7	626.7	635.2	635.2
17.5°	614.3	615.2	616.9	626.3	627.5
20°	600.3	602.0	605.4	616.0	617.7
22.5°	585.8	587.1	592.2	605.0	606.7
25°	568.0	571.4	578.2	592.6	595.2
27.5°	551.0	553.9	563.3	578.2	582.4
30°	531.0	535.6	546.7	562.9	567.5
32.5°	511.8	516.9	529.7	548.4	552.7
35°	488.8	496.5	512.7	531.4	536.5
37.5°	468.0	475.2	493.5	513.9	519.9
40°	445.0	453.9	474.8	496.5	502.5
42.5°	423.7	432.3	454.8	476.9	485.0
45°	398.2	410.1	433.5	457.8	466.3
47.5°	374.8	386.7	413.5	439.5	447.1
50°	351.4	364.2	392.3	419.1	426.7
52.5°	327.2	340.8	371.0	397.8	406.7
55°	301.6	317.4	348.9	376.1	384.2
57.5°	277.4	293.6	327.2	354.8	362.9
60°	253.6	270.2	304.6	331.0	339.5
62.5°	227.2	246.8	282.5	308.4	314.8
65°	203.4	223.4	258.2	284.2	291.4
67.5°	178.3	200.0	234.8	258.7	265.5
70°	154.4	177.0	210.6	232.7	235.7
72.5°	128.9	151.9	185.9	200.0	200.0
75°	105.9	129.3	160.8	163.4	161.2
77.5°	80.8	106.8	127.2	122.1	117.0
80°	58.3	83.8	93.2	83.8	77.0
82.5°	39.1	60.8	56.2	44.7	39.6
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)