

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: P275419

Luminaire Tested: **14CZ2-20-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275419
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1767.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

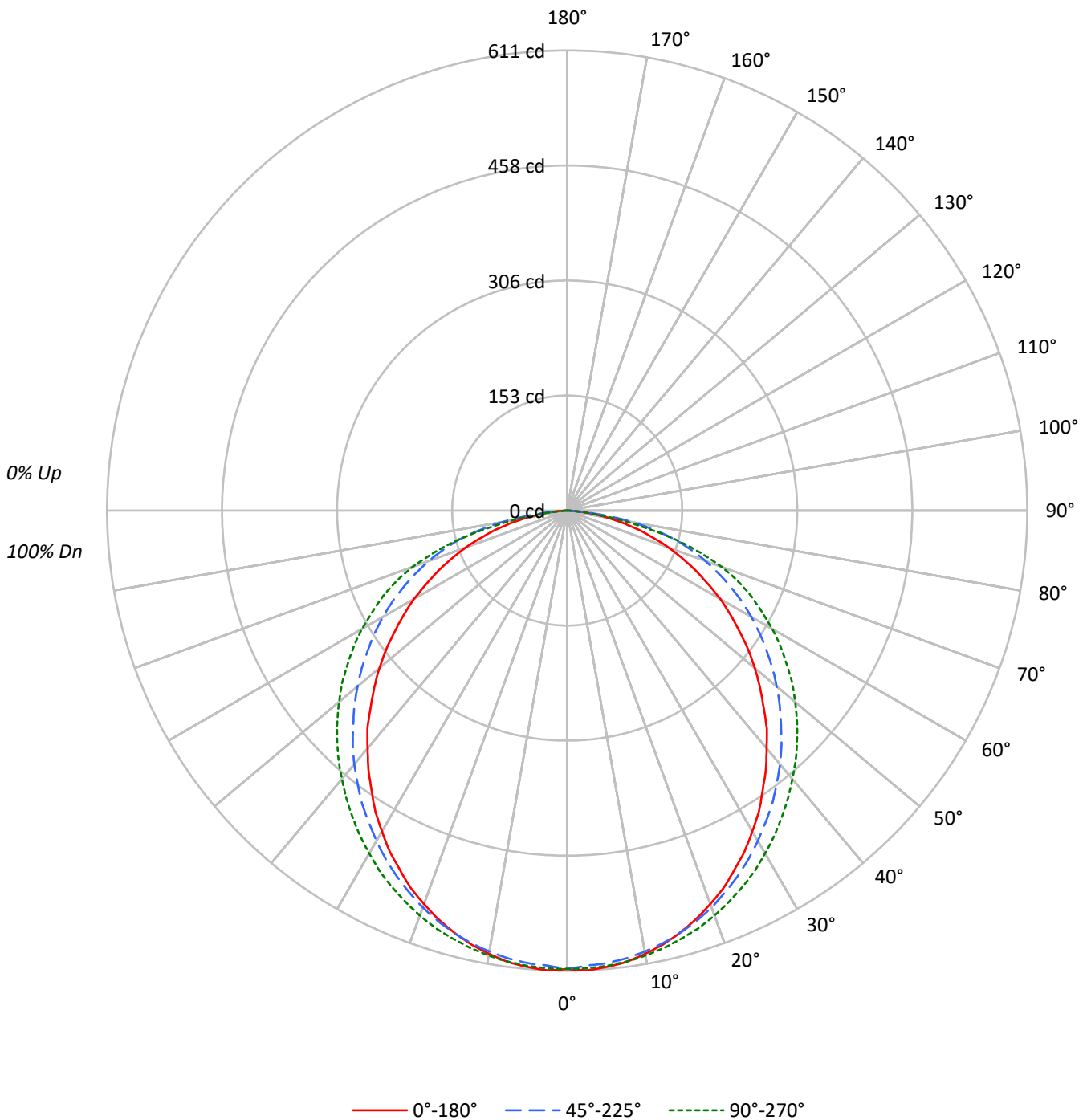
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1638	1638	1638
5°	1643	1629	1639
10°	1633	1625	1640
15°	1616	1617	1639
20°	1592	1606	1638
25°	1562	1590	1637
30°	1528	1573	1633
35°	1487	1560	1632
40°	1448	1545	1635
45°	1404	1528	1643
50°	1362	1521	1654
55°	1310	1516	1669
60°	1264	1518	1692
65°	1199	1523	1719
70°	1125	1534	1718
75°	1020	1548	1552
80°	837	1337	1105
85°	621	633	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.3
10°-20°	164.5	9.3
20°-30°	247.9	14.0
30°-40°	297.5	16.8
40°-50°	310.0	17.5
50°-60°	287.0	16.2
60°-70°	231.9	13.1
70°-80°	141.4	8.0
80°-90°	29.2	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°	470.0	26.6
0°-40°	767.5	43.4
0°-60°	1364.5	77.2
0°-90°	1767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	608	607	603	608	607	58
15°	580	580	580	588	588	163
25°	526	529	536	549	551	242
35°	453	460	475	492	497	284
45°	369	380	402	424	432	285
55°	279	294	323	348	356	250
65°	188	207	239	263	270	186
75°	98	120	149	151	149	103
85°	20	30	20	11	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.7	608.7	608.7	608.7	608.7
2.5°	611.1	609.1	604.8	609.1	608.3
5°	608.3	606.8	603.2	607.6	606.8
7.5°	604.4	602.8	599.7	604.8	604.0
10°	597.7	596.9	594.6	600.5	600.1
12.5°	589.8	589.4	588.2	594.9	594.6
15°	580.0	580.4	580.4	588.2	588.2
17.5°	568.9	569.7	571.3	580.0	581.2
20°	555.9	557.5	560.7	570.5	572.1
22.5°	542.5	543.7	548.5	560.3	561.9
25°	526.0	529.1	535.5	548.8	551.2
27.5°	510.2	513.0	521.7	535.5	539.4
30°	491.7	496.1	506.3	521.3	525.6
32.5°	474.0	478.7	490.5	507.9	511.8
35°	452.7	459.8	474.8	492.1	496.8
37.5°	433.4	440.1	457.0	476.0	481.5
40°	412.1	420.4	439.7	459.8	465.3
42.5°	392.4	400.3	421.2	441.7	449.2
45°	368.8	379.8	401.5	423.9	431.8
47.5°	347.1	358.2	383.0	407.0	414.1
50°	325.4	337.3	363.3	388.1	395.2
52.5°	303.0	315.6	343.6	368.4	376.7
55°	279.3	293.9	323.1	348.3	355.8
57.5°	256.9	271.9	303.0	328.6	336.1
60°	234.8	250.2	282.1	306.5	314.4
62.5°	210.4	228.5	261.6	285.7	291.6
65°	188.3	206.9	239.2	263.2	269.9
67.5°	165.1	185.2	217.5	239.6	245.9
70°	143.0	163.9	195.0	215.5	218.3
72.5°	119.4	140.7	172.2	185.2	185.2
75°	98.1	119.8	148.9	151.3	149.3
77.5°	74.9	98.9	117.8	113.1	108.4
80°	54.0	77.6	86.3	77.6	71.3
82.5°	36.2	56.3	52.0	41.4	36.6
85°	20.1	29.9	20.5	11.4	8.3
87.5°	7.5	6.7	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)