

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: P275670

Luminaire Tested: **14CZ2-20-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1646.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

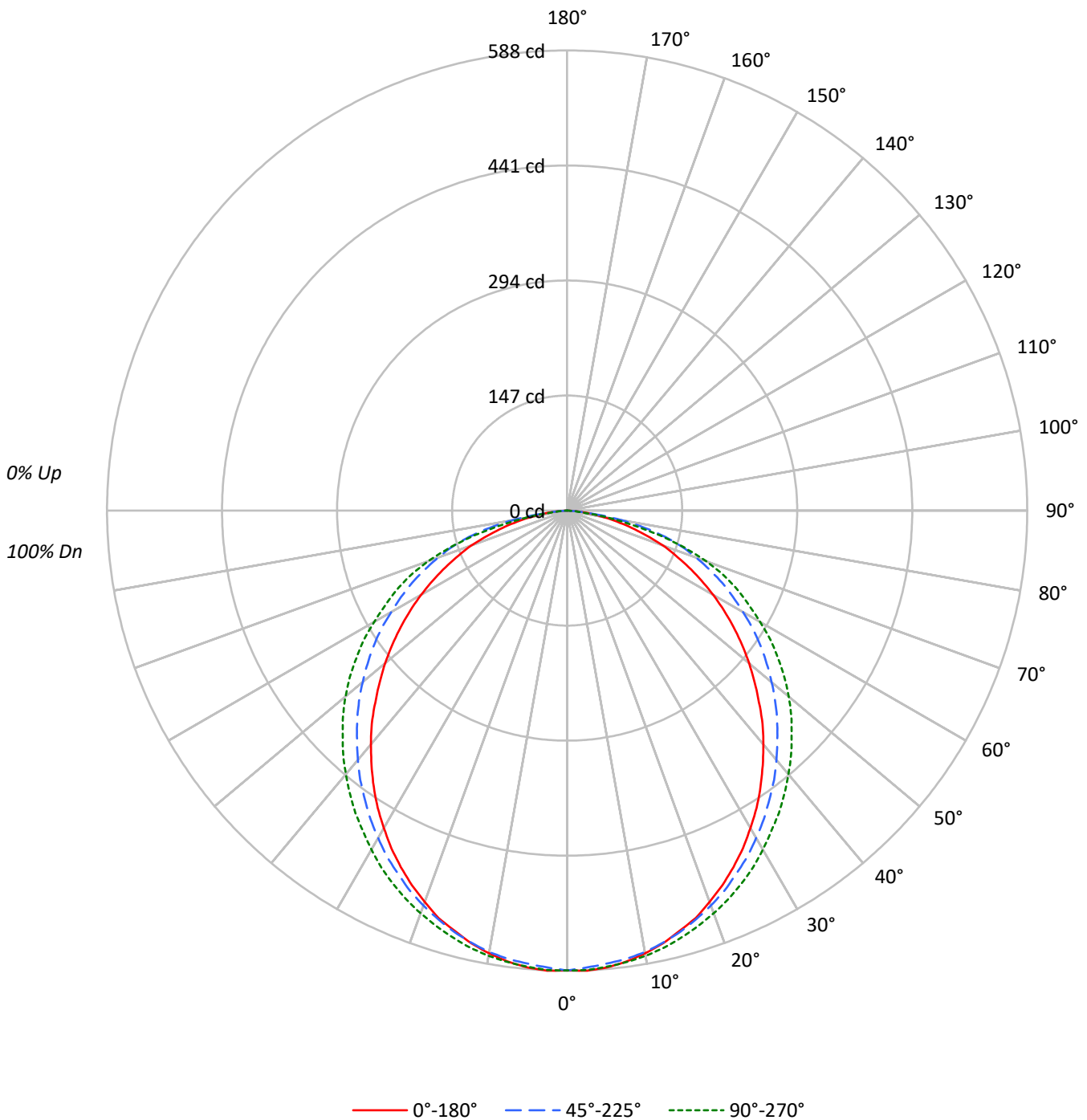
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1581	1581	1581
5°	1583	1570	1581
10°	1570	1565	1579
15°	1548	1553	1573
20°	1524	1538	1568
25°	1493	1519	1563
30°	1455	1501	1555
35°	1416	1480	1550
40°	1370	1462	1545
45°	1320	1444	1544
50°	1271	1428	1548
55°	1217	1417	1543
60°	1160	1397	1533
65°	1091	1393	1533
70°	1028	1381	1489
75°	891	1350	1273
80°	721	1088	848
85°	479	377	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.4
10°-20°	157.9	9.6
20°-30°	236.8	14.4
30°-40°	282.5	17.2
40°-50°	292.1	17.7
50°-60°	266.7	16.2
60°-70°	209.9	12.7
70°-80°	122.2	7.4
80°-90°	22.5	1.4
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°	450.2	27.4
0°-40°	732.7	44.5
0°-60°	1291.5	78.5
0°-90°	1646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	586	584	581	586	585	56
15°	556	557	557	565	565	157
25°	503	505	512	524	526	231
35°	431	437	450	468	472	269
45°	347	358	380	401	406	268
55°	260	273	302	324	329	232
65°	171	189	219	236	241	170
75°	86	106	130	127	122	91
85°	16	22	12	10	8	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.6	587.6	587.6	587.6	587.6
2.5°	588.4	586.8	584.3	588.4	587.6
5°	586.0	584.3	581.1	586.0	585.1
7.5°	581.1	579.4	577.8	582.7	581.9
10°	574.5	573.7	572.9	578.6	577.8
12.5°	566.4	566.4	565.6	572.1	572.1
15°	555.8	556.6	557.4	564.7	564.7
17.5°	546.0	545.2	547.6	555.8	556.6
20°	532.1	533.7	537.0	546.8	547.6
22.5°	518.2	519.9	525.6	535.4	537.8
25°	502.7	505.2	511.7	523.9	526.4
27.5°	486.4	489.7	498.6	511.7	514.1
30°	468.4	473.3	483.1	497.8	500.3
32.5°	450.5	455.4	467.6	482.3	485.6
35°	430.9	436.6	450.5	467.6	471.7
37.5°	410.5	417.8	434.2	451.3	456.2
40°	390.1	398.3	416.2	434.2	439.9
42.5°	369.7	377.9	397.4	417.8	423.6
45°	346.8	358.3	379.5	400.7	405.6
47.5°	324.8	337.1	360.7	381.9	388.5
50°	303.6	315.8	341.1	363.2	369.7
52.5°	281.6	294.6	321.5	344.4	350.1
55°	259.5	273.4	302.0	324.0	328.9
57.5°	237.5	252.2	281.6	302.8	308.5
60°	215.5	231.0	259.5	280.7	284.8
62.5°	193.4	209.7	239.1	257.9	262.0
65°	171.4	189.3	218.7	235.9	240.8
67.5°	150.2	168.1	196.7	213.0	217.1
70°	130.6	146.9	175.5	187.7	189.3
72.5°	106.1	126.5	154.2	160.8	156.7
75°	85.7	106.1	129.8	127.3	122.4
77.5°	65.3	85.7	101.2	93.0	86.5
80°	46.5	66.9	70.2	57.9	54.7
82.5°	30.2	46.5	39.2	30.2	24.5
85°	15.5	22.0	12.2	9.8	8.2
87.5°	4.9	3.3	1.6	1.6	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)