

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: P275866

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1822.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

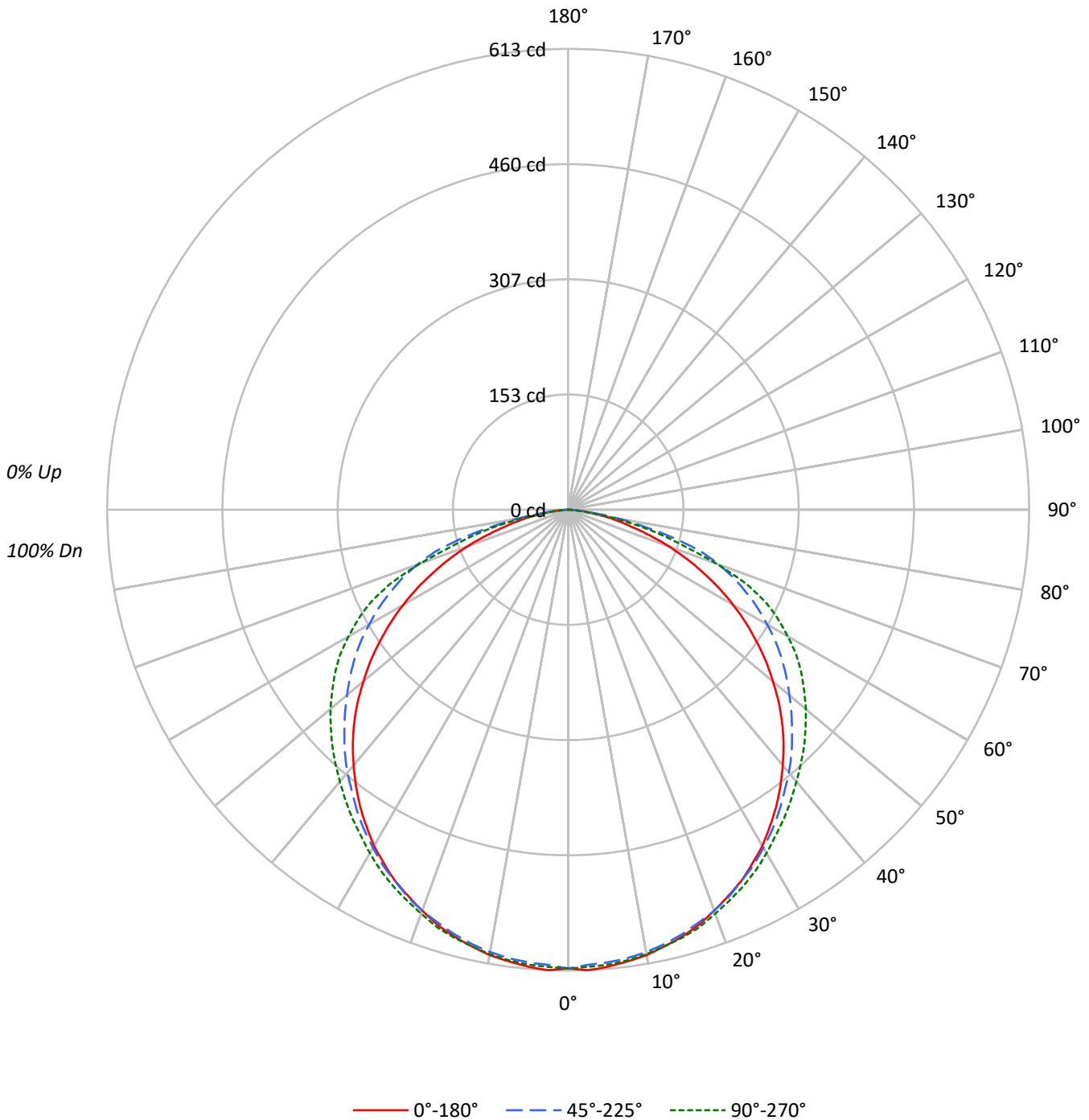
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1642	1642	1642
5°	1648	1633	1641
10°	1644	1632	1640
15°	1637	1629	1641
20°	1625	1625	1637
25°	1618	1618	1639
30°	1605	1613	1640
35°	1584	1607	1645
40°	1559	1604	1659
45°	1532	1602	1689
50°	1489	1608	1727
55°	1435	1628	1775
60°	1363	1646	1814
65°	1259	1666	1839
70°	1119	1679	1645
75°	902	1509	1316
80°	705	1058	860
85°	482	309	219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.2
10°-20°	165.7	9.1
20°-30°	252.3	13.8
30°-40°	307.3	16.9
40°-50°	326.1	17.9
50°-60°	307.7	16.9
60°-70°	248.5	13.6
70°-80°	134.8	7.4
80°-90°	21.8	1.2
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°	475.8	26.1
0°-40°	783.1	43.0
0°-60°	1416.9	77.8
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	610	609	604	609	607	58
15°	588	586	585	589	589	166
25°	545	543	545	550	552	251
35°	482	485	489	499	501	301
45°	403	408	421	437	444	310
55°	306	319	347	370	378	273
65°	198	222	262	283	289	196
75°	87	127	145	131	127	95
85°	16	17	10	8	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.2	610.2	610.2	610.2	610.2
2.5°	613.1	610.2	606.0	610.2	608.8
5°	610.2	608.8	604.5	608.8	607.4
7.5°	606.0	606.0	601.7	604.5	604.5
10°	601.7	600.3	597.4	601.7	600.3
12.5°	594.6	593.2	591.7	596.0	594.6
15°	587.5	586.1	584.6	588.9	588.9
17.5°	578.9	577.5	576.1	581.8	581.8
20°	567.6	567.6	567.6	573.3	571.8
22.5°	556.2	556.2	557.6	563.3	561.9
25°	544.8	543.4	544.8	550.5	551.9
27.5°	530.6	532.0	533.4	539.1	540.5
30°	516.4	517.8	519.2	526.3	527.7
32.5°	499.3	502.1	505.0	513.5	513.5
35°	482.2	485.1	489.3	499.3	500.7
37.5°	463.7	466.6	472.3	483.6	486.5
40°	443.8	448.1	456.6	468.0	472.3
42.5°	423.9	429.6	439.5	452.3	458.0
45°	402.6	408.2	421.0	436.7	443.8
47.5°	379.8	386.9	402.6	422.5	428.2
50°	355.6	365.6	384.1	405.4	412.5
52.5°	331.4	342.8	365.6	388.3	395.4
55°	305.8	318.6	347.1	369.8	378.4
57.5°	280.2	294.4	327.2	351.3	359.9
60°	253.2	270.3	305.8	330.0	337.1
62.5°	226.2	246.1	284.5	308.7	314.4
65°	197.7	221.9	261.7	283.1	288.8
67.5°	170.7	199.1	239.0	254.6	254.6
70°	142.2	173.5	213.4	217.6	209.1
72.5°	113.8	149.4	184.9	169.3	162.2
75°	86.8	126.6	145.1	130.9	126.6
77.5°	65.4	102.4	102.4	93.9	91.0
80°	45.5	78.2	68.3	59.7	55.5
82.5°	29.9	44.1	35.6	28.4	24.2
85°	15.6	17.1	10.0	8.5	7.1
87.5°	5.7	2.8	1.4	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)