

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: P275503

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275503
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-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1694.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

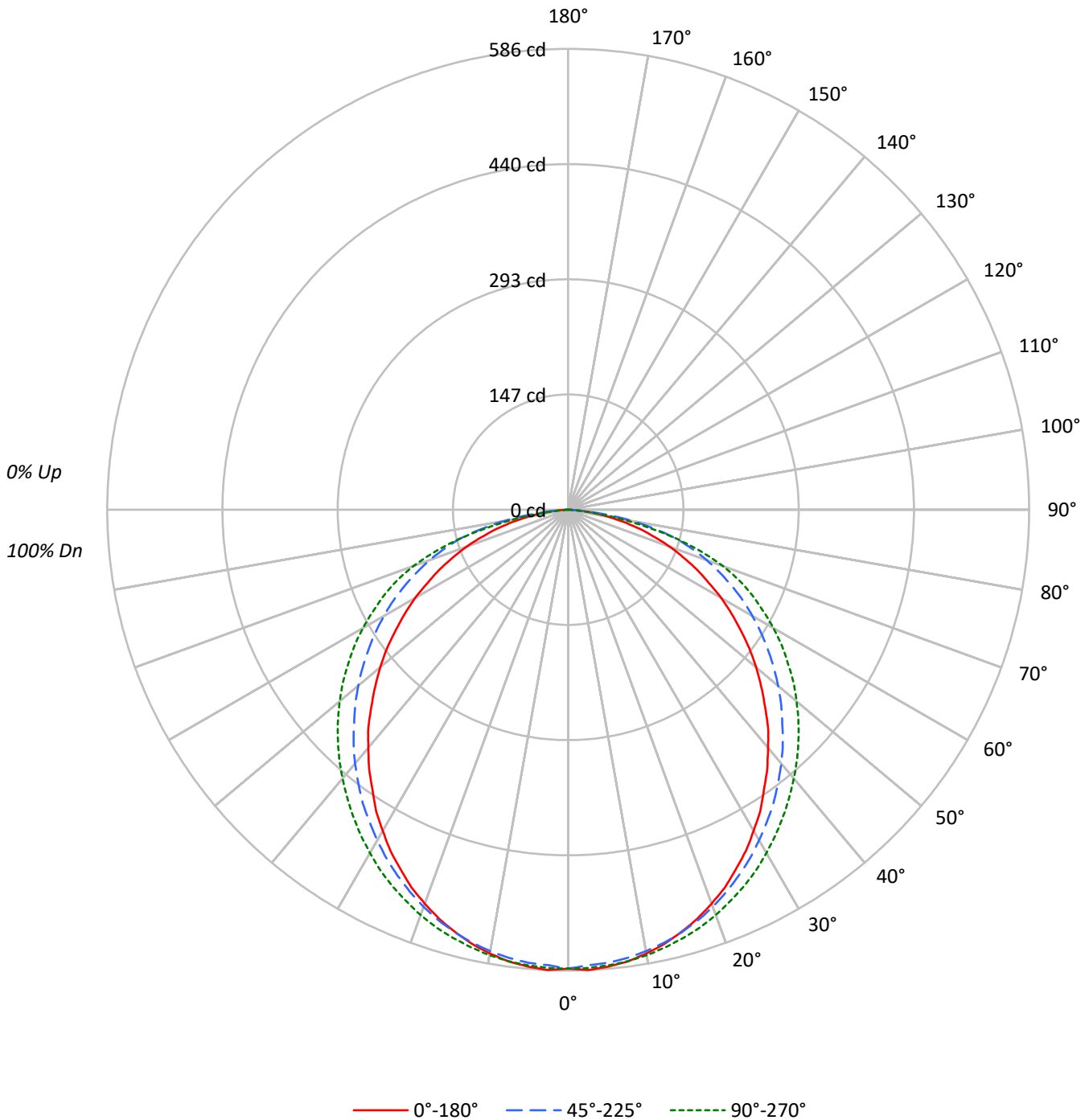
Input Watts (W): 15.159
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1570	1570	1570
5°	1575	1562	1571
10°	1566	1558	1572
15°	1549	1550	1571
20°	1526	1539	1571
25°	1497	1524	1569
30°	1465	1508	1566
35°	1426	1495	1565
40°	1388	1481	1567
45°	1346	1465	1576
50°	1306	1458	1586
55°	1256	1453	1600
60°	1211	1456	1622
65°	1150	1460	1647
70°	1079	1471	1647
75°	978	1485	1489
80°	801	1282	1060
85°	596	605	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	3.3
10°-20°	157.7	9.3
20°-30°	237.6	14.0
30°-40°	285.2	16.8
40°-50°	297.2	17.5
50°-60°	275.2	16.2
60°-70°	222.3	13.1
70°-80°	135.5	8.0
80°-90°	28.0	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°	450.6	26.6
0°-40°	735.8	43.4
0°-60°	1308.2	77.2
0°-90°	1694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	582	578	582	582	55
15°	556	556	556	564	564	157
25°	504	507	513	526	528	232
35°	434	441	455	472	476	272
45°	354	364	385	406	414	273
55°	268	282	310	334	341	240
65°	181	198	229	252	259	179
75°	94	115	143	145	143	99
85°	19	29	20	11	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.6	583.6	583.6	583.6	583.6
2.5°	585.9	584.0	579.8	584.0	583.2
5°	583.2	581.7	578.3	582.5	581.7
7.5°	579.4	577.9	574.9	579.8	579.1
10°	573.0	572.3	570.0	575.7	575.3
12.5°	565.5	565.1	563.9	570.4	570.0
15°	556.0	556.4	556.4	563.9	563.9
17.5°	545.4	546.2	547.7	556.0	557.1
20°	533.0	534.5	537.5	546.9	548.5
22.5°	520.1	521.3	525.8	537.1	538.6
25°	504.3	507.3	513.3	526.2	528.4
27.5°	489.2	491.8	500.1	513.3	517.1
30°	471.4	475.6	485.4	499.7	503.9
32.5°	454.4	458.9	470.3	486.9	490.7
35°	434.0	440.8	455.2	471.8	476.3
37.5°	415.5	421.9	438.2	456.3	461.6
40°	395.1	403.0	421.5	440.8	446.1
42.5°	376.2	383.8	403.8	423.4	430.6
45°	353.6	364.1	384.9	406.4	414.0
47.5°	332.8	343.4	367.2	390.2	397.0
50°	312.0	323.3	348.3	372.1	378.9
52.5°	290.5	302.6	329.4	353.2	361.1
55°	267.8	281.8	309.7	333.9	341.1
57.5°	246.3	260.6	290.5	315.0	322.2
60°	225.1	239.9	270.5	293.9	301.4
62.5°	201.7	219.1	250.8	273.9	279.5
65°	180.6	198.3	229.3	252.3	258.7
67.5°	158.3	177.5	208.5	229.7	235.7
70°	137.1	157.1	187.0	206.6	209.3
72.5°	114.5	134.8	165.1	177.5	177.5
75°	94.1	114.8	142.8	145.0	143.2
77.5°	71.8	94.8	112.9	108.4	103.9
80°	51.7	74.4	82.7	74.4	68.4
82.5°	34.8	54.0	49.9	39.7	35.1
85°	19.3	28.7	19.6	11.0	7.9
87.5°	7.2	6.4	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)