

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: P275803

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275803  
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: 14CZ2-29-RDP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1757.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

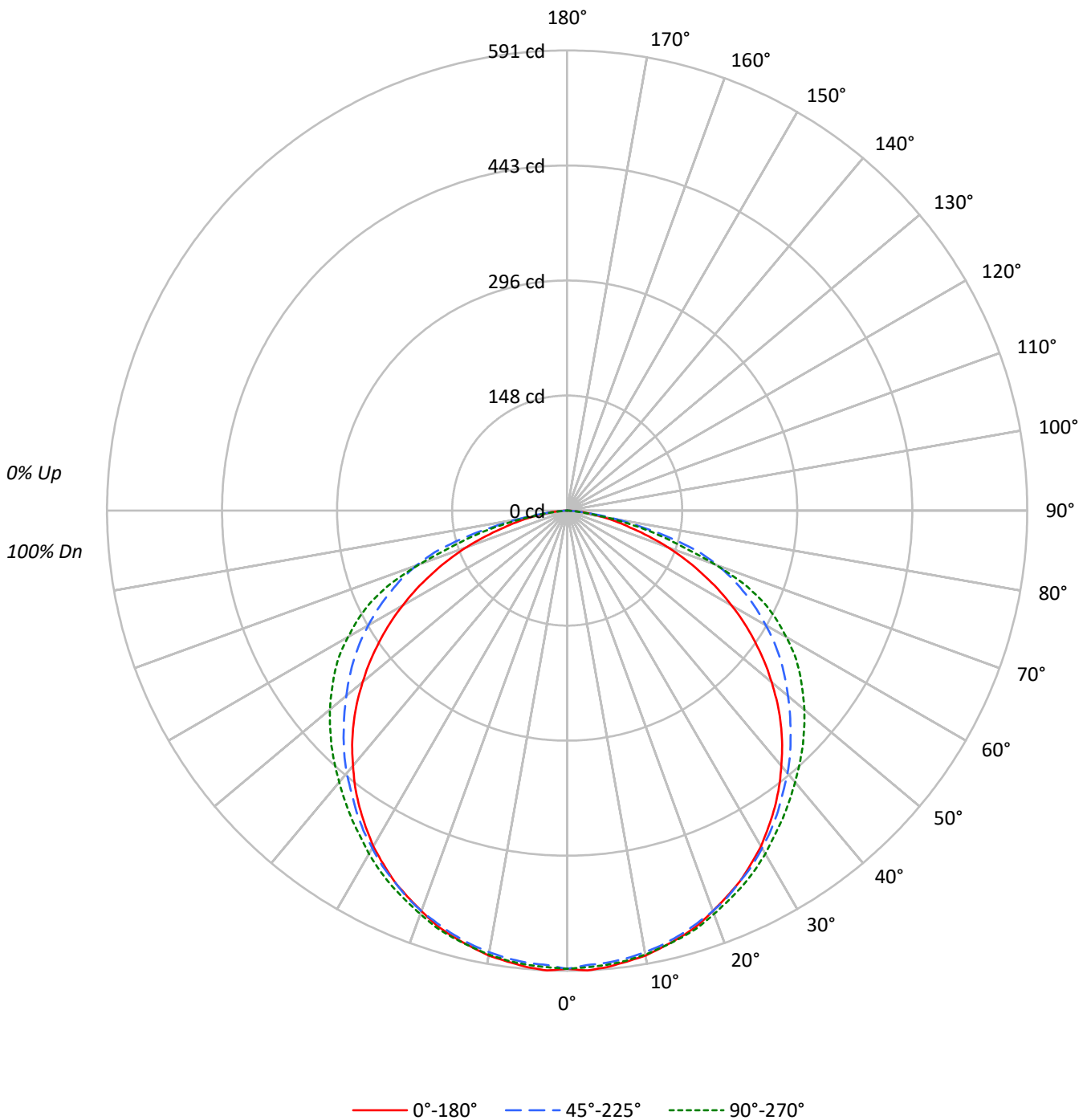
Input Watts (W): 21.948  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1584	1584	1584
5°	1590	1575	1582
10°	1585	1574	1582
15°	1578	1571	1582
20°	1567	1567	1579
25°	1560	1560	1580
30°	1547	1556	1581
35°	1528	1550	1586
40°	1503	1547	1600
45°	1477	1545	1629
50°	1436	1551	1665
55°	1384	1570	1712
60°	1314	1587	1750
65°	1214	1607	1773
70°	1079	1619	1586
75°	870	1455	1269
80°	680	1020	829
85°	466	296	213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	3.2
10°-20°	159.8	9.1
20°-30°	243.3	13.8
30°-40°	296.4	16.9
40°-50°	314.4	17.9
50°-60°	296.7	16.9
60°-70°	239.6	13.6
70°-80°	130.0	7.4
80°-90°	21.0	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°	458.8	26.1
0°-40°	755.2	43.0
0°-60°	1366.4	77.8
0°-90°	1757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	588	587	583	587	586	56
15°	566	565	564	568	568	160
25°	525	524	525	531	532	242
35°	465	468	472	482	483	291
45°	388	394	406	421	428	299
55°	295	307	335	357	365	263
65°	191	214	252	273	278	189
75°	84	122	140	126	122	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	588.5	588.5	588.5	588.5	588.5
2.5°	591.2	588.5	584.3	588.5	587.1
5°	588.5	587.1	583.0	587.1	585.7
7.5°	584.3	584.3	580.2	583.0	583.0
10°	580.2	578.9	576.1	580.2	578.9
12.5°	573.4	572.0	570.6	574.7	573.4
15°	566.5	565.1	563.8	567.9	567.9
17.5°	558.3	556.9	555.5	561.0	561.0
20°	547.3	547.3	547.3	552.8	551.4
22.5°	536.3	536.3	537.7	543.2	541.8
25°	525.4	524.0	525.4	530.9	532.2
27.5°	511.6	513.0	514.4	519.9	521.3
30°	497.9	499.3	500.7	507.5	508.9
32.5°	481.5	484.2	487.0	495.2	495.2
35°	465.0	467.8	471.9	481.5	482.8
37.5°	447.2	449.9	455.4	466.4	469.1
40°	428.0	432.1	440.3	451.3	455.4
42.5°	408.8	414.3	423.9	436.2	441.7
45°	388.2	393.7	406.0	421.1	428.0
47.5°	366.2	373.1	388.2	407.4	412.9
50°	342.9	352.5	370.4	390.9	397.8
52.5°	319.6	330.6	352.5	374.5	381.3
55°	294.9	307.3	334.7	356.6	364.9
57.5°	270.2	283.9	315.5	338.8	347.0
60°	244.2	260.6	294.9	318.2	325.1
62.5°	218.1	237.3	274.3	297.7	303.1
65°	190.7	214.0	252.4	273.0	278.5
67.5°	164.6	192.0	230.4	245.5	245.5
70°	137.2	167.3	205.8	209.9	201.6
72.5°	109.7	144.0	178.3	163.2	156.4
75°	83.7	122.1	139.9	126.2	122.1
77.5°	63.1	98.8	98.8	90.5	87.8
80°	43.9	75.4	65.8	57.6	53.5
82.5°	28.8	42.5	34.3	27.4	23.3
85°	15.1	16.5	9.6	8.2	6.9
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)