

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: P275586

Luminaire Tested: **14CZ2-20-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275586  
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-L93050-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1634.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

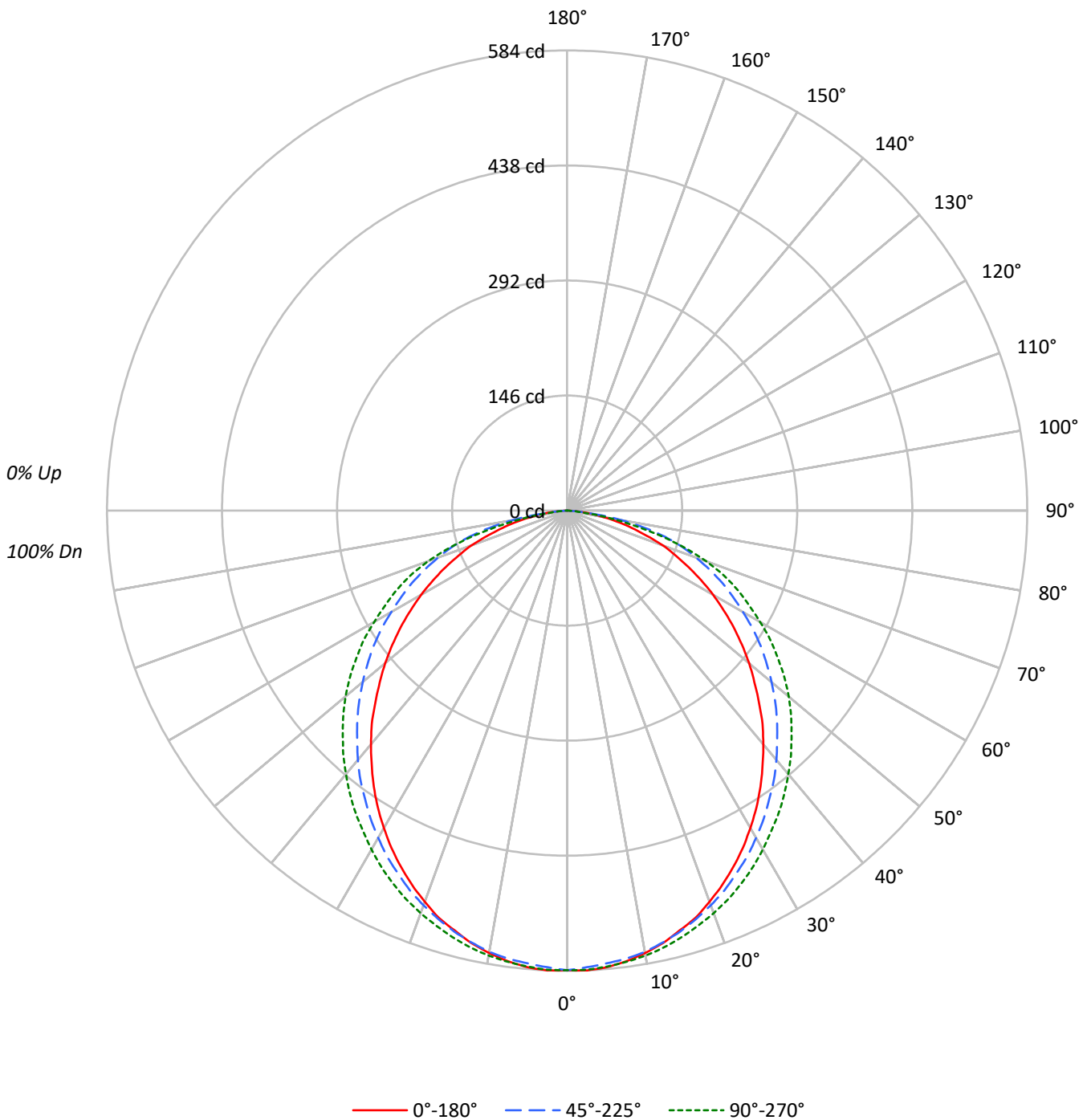
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1570	1570	1570
5°	1571	1558	1569
10°	1558	1554	1567
15°	1537	1541	1562
20°	1513	1527	1557
25°	1482	1508	1551
30°	1445	1490	1543
35°	1405	1469	1538
40°	1361	1451	1534
45°	1310	1434	1532
50°	1262	1418	1536
55°	1209	1407	1532
60°	1151	1386	1521
65°	1083	1382	1522
70°	1020	1371	1479
75°	885	1339	1263
80°	716	1080	841
85°	475	377	250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.4
10°-20°	156.7	9.6
20°-30°	235.1	14.4
30°-40°	280.5	17.2
40°-50°	289.9	17.7
50°-60°	264.7	16.2
60°-70°	208.3	12.7
70°-80°	121.3	7.4
80°-90°	22.3	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°	446.9	27.4
0°-40°	727.4	44.5
0°-60°	1282.1	78.5
0°-90°	1634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	582	580	577	582	581	55
15°	552	552	553	561	561	156
25°	499	502	508	520	522	230
35°	428	433	447	464	468	267
45°	344	356	377	398	403	266
55°	258	271	300	322	326	230
65°	170	188	217	234	239	169
75°	85	105	129	126	122	90
85°	15	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°	583.3	583.3	583.3	583.3	583.3
2.5°	584.1	582.5	580.1	584.1	583.3
5°	581.7	580.1	576.8	581.7	580.9
7.5°	576.8	575.2	573.6	578.4	577.6
10°	570.3	569.5	568.7	574.4	573.6
12.5°	562.2	562.2	561.4	567.9	567.9
15°	551.7	552.5	553.3	560.6	560.6
17.5°	542.0	541.2	543.6	551.7	552.5
20°	528.2	529.8	533.1	542.8	543.6
22.5°	514.4	516.1	521.7	531.5	533.9
25°	499.1	501.5	508.0	520.1	522.5
27.5°	482.9	486.1	495.0	508.0	510.4
30°	465.0	469.9	479.6	494.2	496.6
32.5°	447.2	452.1	464.2	478.8	482.0
35°	427.8	433.4	447.2	464.2	468.3
37.5°	407.5	414.8	431.0	448.0	452.9
40°	387.3	395.4	413.2	431.0	436.7
42.5°	367.0	375.1	394.5	414.8	420.5
45°	344.3	355.7	376.7	397.8	402.6
47.5°	322.4	334.6	358.1	379.2	385.6
50°	301.4	313.5	338.6	360.5	367.0
52.5°	279.5	292.5	319.2	341.9	347.6
55°	257.6	271.4	299.8	321.6	326.5
57.5°	235.8	250.3	279.5	300.6	306.2
60°	213.9	229.3	257.6	278.7	282.7
62.5°	192.0	208.2	237.4	256.0	260.1
65°	170.1	188.0	217.1	234.1	239.0
67.5°	149.1	166.9	195.2	211.5	215.5
70°	129.6	145.8	174.2	186.3	188.0
72.5°	105.3	125.6	153.1	159.6	155.5
75°	85.1	105.3	128.8	126.4	121.5
77.5°	64.8	85.1	100.5	92.4	85.9
80°	46.2	66.4	69.7	57.5	54.3
82.5°	30.0	46.2	38.9	30.0	24.3
85°	15.4	21.9	12.2	9.7	8.1
87.5°	4.9	3.2	1.6	1.6	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)