

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: P275726

Luminaire Tested: **14CZ2-20-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275726  
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: 14CZ2-20-RDP-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1401.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

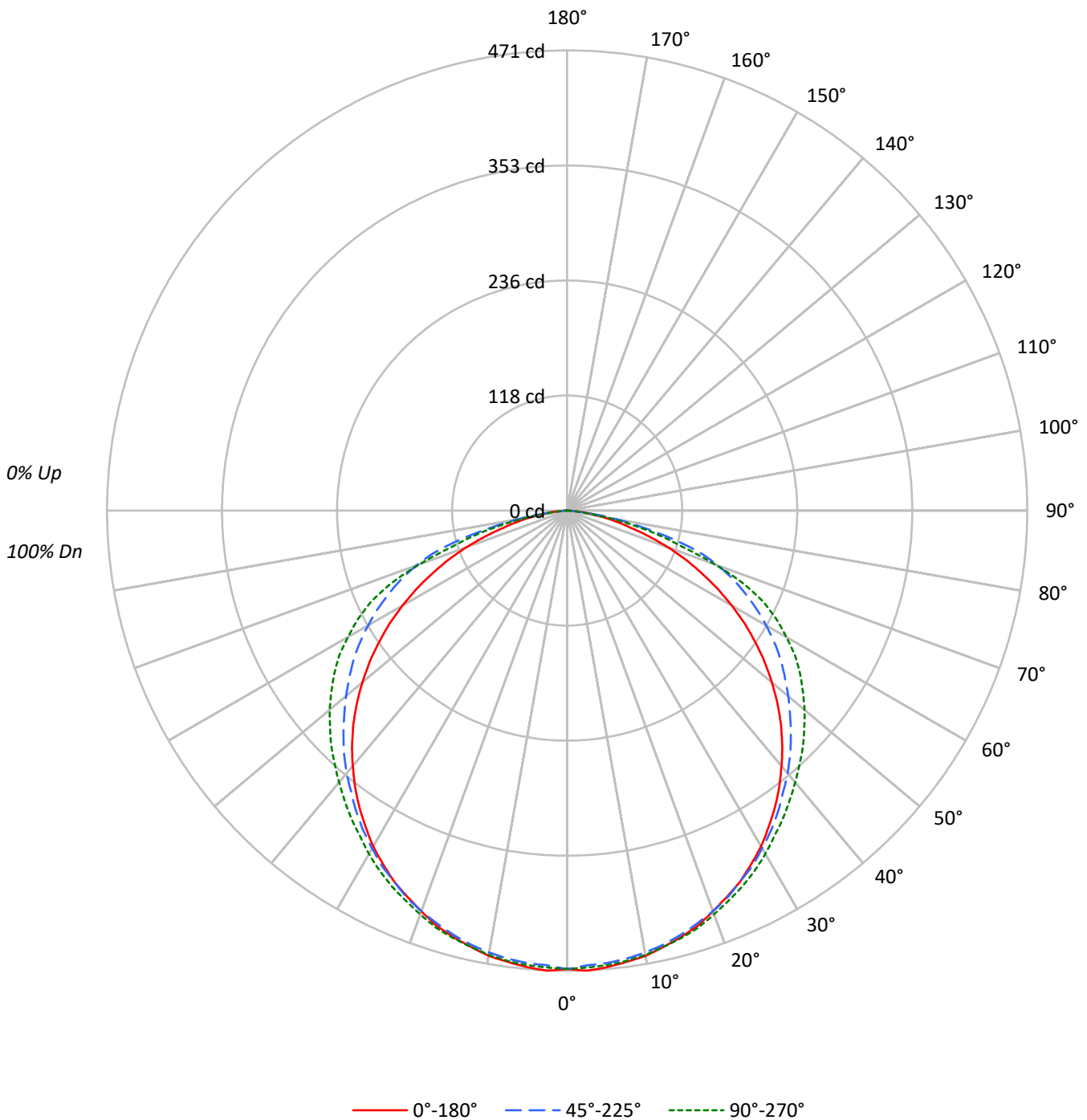
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1263	1263	1263
5°	1267	1256	1261
10°	1264	1255	1261
15°	1258	1252	1261
20°	1250	1250	1259
25°	1244	1244	1260
30°	1234	1240	1261
35°	1218	1236	1265
40°	1199	1233	1276
45°	1178	1232	1299
50°	1145	1236	1328
55°	1103	1252	1365
60°	1048	1266	1395
65°	968	1282	1414
70°	861	1291	1265
75°	693	1160	1012
80°	542	814	662
85°	371	238	170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	3.2
10°-20°	127.4	9.1
20°-30°	194.0	13.8
30°-40°	236.3	16.9
40°-50°	250.7	17.9
50°-60°	236.6	16.9
60°-70°	191.1	13.6
70°-80°	103.6	7.4
80°-90°	16.8	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°	365.9	26.1
0°-40°	602.2	43.0
0°-60°	1089.5	77.8
0°-90°	1401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	469	468	465	468	467	45
15°	452	451	450	453	453	127
25°	419	418	419	423	424	193
35°	371	373	376	384	385	232
45°	310	314	324	336	341	238
55°	235	245	267	284	291	210
65°	152	171	201	218	222	151
75°	67	97	112	101	97	73
85°	12	13	8	7	6	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	469.2	469.2	469.2	469.2	469.2
2.5°	471.4	469.2	465.9	469.2	468.1
5°	469.2	468.1	464.9	468.1	467.0
7.5°	465.9	465.9	462.7	464.9	464.9
10°	462.7	461.6	459.4	462.7	461.6
12.5°	457.2	456.1	455.0	458.3	457.2
15°	451.7	450.6	449.5	452.8	452.8
17.5°	445.2	444.1	443.0	447.4	447.4
20°	436.4	436.4	436.4	440.8	439.7
22.5°	427.7	427.7	428.8	433.1	432.0
25°	418.9	417.8	418.9	423.3	424.4
27.5°	408.0	409.1	410.2	414.5	415.6
30°	397.0	398.1	399.2	404.7	405.8
32.5°	383.9	386.1	388.3	394.9	394.9
35°	370.8	373.0	376.3	383.9	385.0
37.5°	356.6	358.8	363.1	371.9	374.1
40°	341.3	344.5	351.1	359.9	363.1
42.5°	325.9	330.3	338.0	347.8	352.2
45°	309.5	313.9	323.8	335.8	341.3
47.5°	292.0	297.5	309.5	324.9	329.2
50°	273.4	281.1	295.3	311.7	317.2
52.5°	254.9	263.6	281.1	298.6	304.1
55°	235.2	245.0	266.9	284.4	290.9
57.5°	215.5	226.4	251.6	270.2	276.7
60°	194.7	207.8	235.2	253.8	259.2
62.5°	173.9	189.2	218.8	237.3	241.7
65°	152.0	170.6	201.3	217.7	222.0
67.5°	131.3	153.1	183.8	195.8	195.8
70°	109.4	133.4	164.1	167.3	160.8
72.5°	87.5	114.8	142.2	130.2	124.7
75°	66.7	97.3	111.6	100.6	97.3
77.5°	50.3	78.8	78.8	72.2	70.0
80°	35.0	60.2	52.5	45.9	42.7
82.5°	23.0	33.9	27.3	21.9	18.6
85°	12.0	13.1	7.7	6.6	5.5
87.5°	4.4	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)