

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: P275762

Luminaire Tested: **14CZ2-25-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275762  
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: 14CZ2-25-RDP-UNV-L93050-W2A1-U-4500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1454.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 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

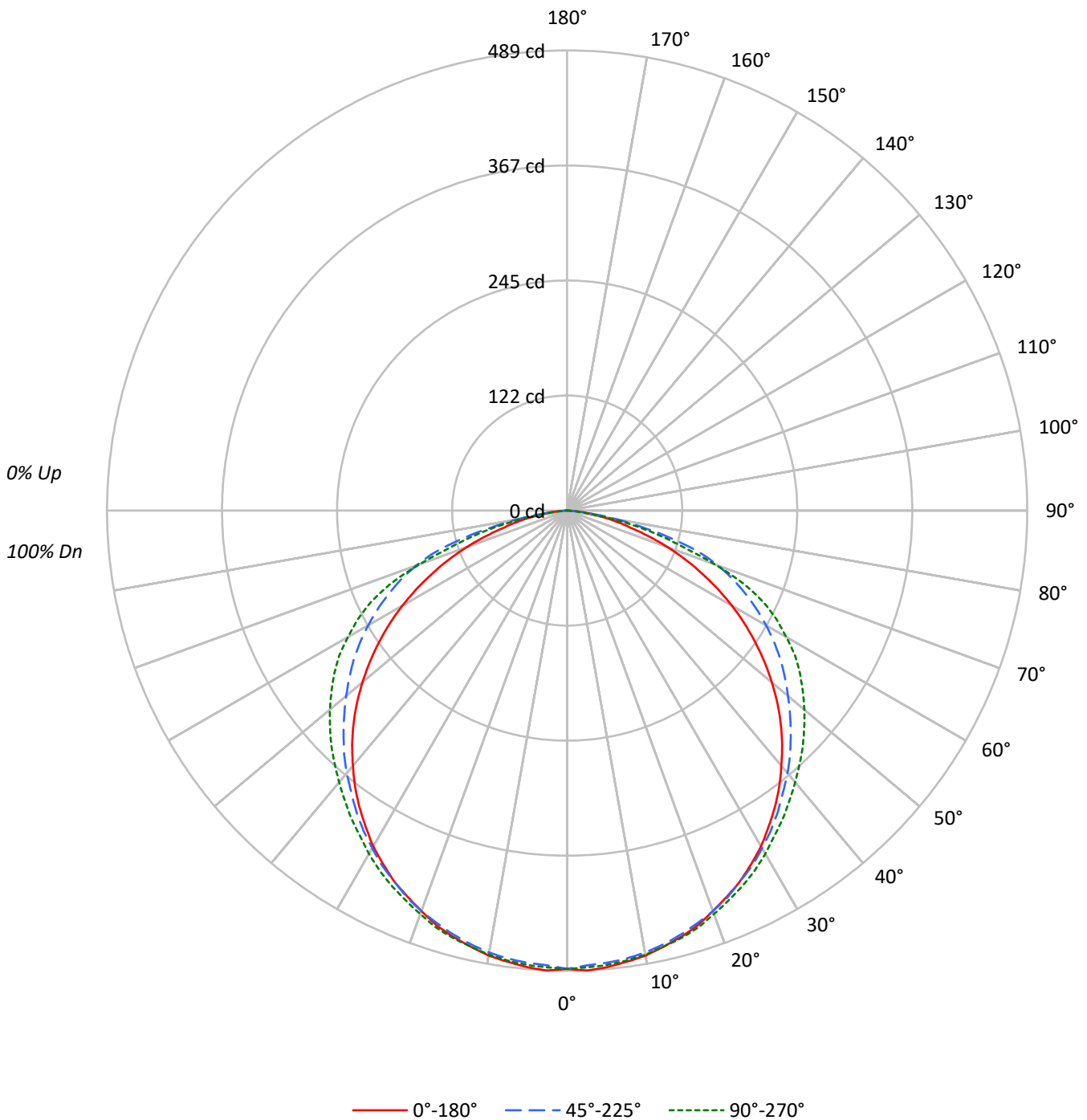
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1311	1311	1311
5°	1316	1303	1309
10°	1312	1303	1309
15°	1306	1300	1309
20°	1297	1297	1307
25°	1291	1291	1308
30°	1281	1287	1308
35°	1264	1283	1313
40°	1244	1280	1324
45°	1222	1279	1348
50°	1188	1283	1378
55°	1145	1300	1417
60°	1088	1314	1448
65°	1005	1330	1467
70°	893	1340	1313
75°	719	1204	1050
80°	563	845	687
85°	386	244	176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	3.2
10°-20°	132.2	9.1
20°-30°	201.4	13.8
30°-40°	245.3	16.9
40°-50°	260.2	17.9
50°-60°	245.6	16.9
60°-70°	198.3	13.6
70°-80°	107.6	7.4
80°-90°	17.4	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°	379.7	26.1
0°-40°	625.0	43.0
0°-60°	1130.8	77.8
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	487	486	482	486	485	46
15°	469	468	466	470	470	132
25°	435	434	435	439	440	200
35°	385	387	390	398	400	241
45°	321	326	336	348	354	247
55°	244	254	277	295	302	218
65°	158	177	209	226	230	156
75°	69	101	116	104	101	76
85°	12	14	8	7	6	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	487.0	487.0	487.0	487.0	487.0
2.5°	489.3	487.0	483.6	487.0	485.8
5°	487.0	485.8	482.4	485.8	484.7
7.5°	483.6	483.6	480.2	482.4	482.4
10°	480.2	479.0	476.8	480.2	479.0
12.5°	474.5	473.4	472.2	475.6	474.5
15°	468.8	467.7	466.5	470.0	470.0
17.5°	462.0	460.9	459.7	464.3	464.3
20°	452.9	452.9	452.9	457.5	456.3
22.5°	443.8	443.8	445.0	449.5	448.4
25°	434.8	433.6	434.8	439.3	440.4
27.5°	423.4	424.5	425.7	430.2	431.4
30°	412.1	413.2	414.3	420.0	421.1
32.5°	398.4	400.7	403.0	409.8	409.8
35°	384.8	387.1	390.5	398.4	399.6
37.5°	370.1	372.3	376.9	386.0	388.2
40°	354.2	357.6	364.4	373.5	376.9
42.5°	338.3	342.8	350.8	361.0	365.5
45°	321.2	325.8	336.0	348.5	354.2
47.5°	303.1	308.8	321.2	337.1	341.7
50°	283.8	291.7	306.5	323.5	329.2
52.5°	264.5	273.6	291.7	309.9	315.6
55°	244.1	254.3	277.0	295.1	302.0
57.5°	223.6	235.0	261.1	280.4	287.2
60°	202.1	215.7	244.1	263.4	269.0
62.5°	180.5	196.4	227.0	246.3	250.9
65°	157.8	177.1	208.9	225.9	230.4
67.5°	136.2	158.9	190.7	203.2	203.2
70°	113.5	138.5	170.3	173.7	166.9
72.5°	90.8	119.2	147.6	135.1	129.4
75°	69.2	101.0	115.8	104.4	101.0
77.5°	52.2	81.7	81.7	74.9	72.6
80°	36.3	62.4	54.5	47.7	44.3
82.5°	23.8	35.2	28.4	22.7	19.3
85°	12.5	13.6	7.9	6.8	5.7
87.5°	4.5	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)