

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: P275839

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275839  
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-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1087.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 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

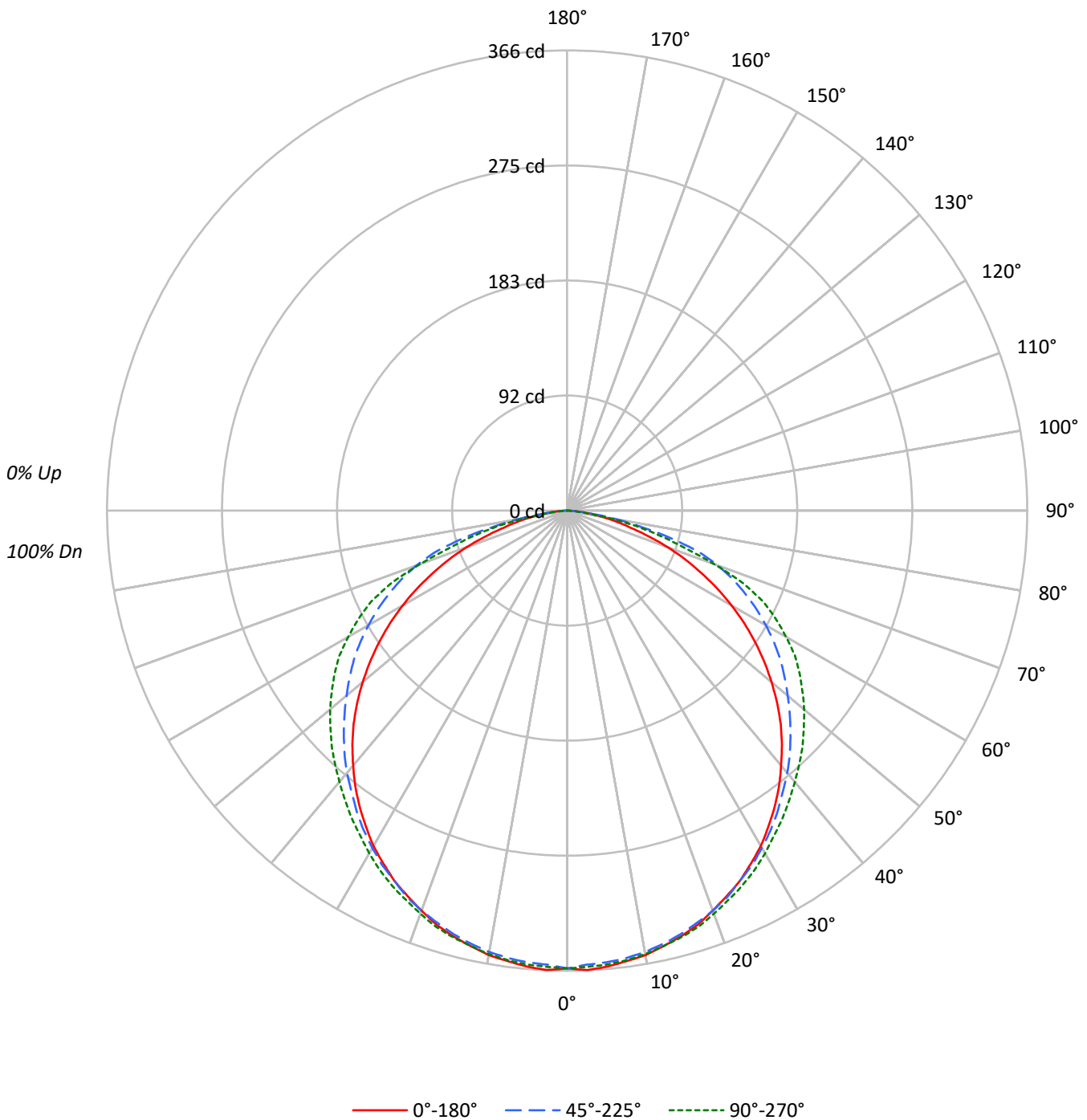
Input Watts (W): 15.159  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	980	980	980
5°	984	974	979
10°	981	974	979
15°	976	972	979
20°	970	970	977
25°	965	965	978
30°	957	963	978
35°	945	959	981
40°	930	957	990
45°	914	956	1008
50°	888	959	1030
55°	856	972	1059
60°	813	982	1082
65°	751	994	1097
70°	668	1002	981
75°	539	900	785
80°	422	631	513
85°	287	182	130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.5	3.2
10°-20°	98.9	9.1
20°-30°	150.5	13.8
30°-40°	183.4	16.9
40°-50°	194.5	17.9
50°-60°	183.6	16.9
60°-70°	148.2	13.6
70°-80°	80.4	7.4
80°-90°	13.0	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°	283.9	26.1
0°-40°	467.2	43.0
0°-60°	845.3	77.8
0°-90°	1087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	364	364	364	364	364	
5°	364	363	361	363	362	35
15°	350	350	349	351	351	99
25°	325	324	325	328	329	150
35°	288	289	292	298	299	180
45°	240	244	251	260	265	185
55°	182	190	207	221	226	163
65°	118	132	156	169	172	117
75°	52	76	87	78	76	57
85°	9	10	6	5	4	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	364.1	364.1	364.1	364.1	364.1
2.5°	365.8	364.1	361.5	364.1	363.2
5°	364.1	363.2	360.7	363.2	362.4
7.5°	361.5	361.5	359.0	360.7	360.7
10°	359.0	358.1	356.4	359.0	358.1
12.5°	354.7	353.9	353.0	355.6	354.7
15°	350.5	349.6	348.8	351.3	351.3
17.5°	345.4	344.5	343.7	347.1	347.1
20°	338.6	338.6	338.6	342.0	341.2
22.5°	331.8	331.8	332.7	336.1	335.2
25°	325.0	324.2	325.0	328.4	329.3
27.5°	316.5	317.4	318.2	321.6	322.5
30°	308.1	308.9	309.8	314.0	314.8
32.5°	297.9	299.6	301.3	306.4	306.4
35°	287.7	289.4	291.9	297.9	298.7
37.5°	276.7	278.4	281.7	288.5	290.2
40°	264.8	267.3	272.4	279.2	281.7
42.5°	252.9	256.3	262.2	269.9	273.3
45°	240.2	243.6	251.2	260.5	264.8
47.5°	226.6	230.8	240.2	252.0	255.4
50°	212.2	218.1	229.1	241.9	246.1
52.5°	197.7	204.5	218.1	231.7	235.9
55°	182.5	190.1	207.1	220.6	225.7
57.5°	167.2	175.7	195.2	209.6	214.7
60°	151.1	161.2	182.5	196.9	201.1
62.5°	134.9	146.8	169.7	184.2	187.5
65°	118.0	132.4	156.1	168.9	172.3
67.5°	101.8	118.8	142.6	151.9	151.9
70°	84.9	103.5	127.3	129.8	124.7
72.5°	67.9	89.1	110.3	101.0	96.7
75°	51.8	75.5	86.6	78.1	75.5
77.5°	39.0	61.1	61.1	56.0	54.3
80°	27.2	46.7	40.7	35.6	33.1
82.5°	17.8	26.3	21.2	17.0	14.4
85°	9.3	10.2	5.9	5.1	4.2
87.5°	3.4	1.7	0.8	1.7	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)