

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: P275724

Luminaire Tested: **14CZ2-20-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275724  
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-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: 1261.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

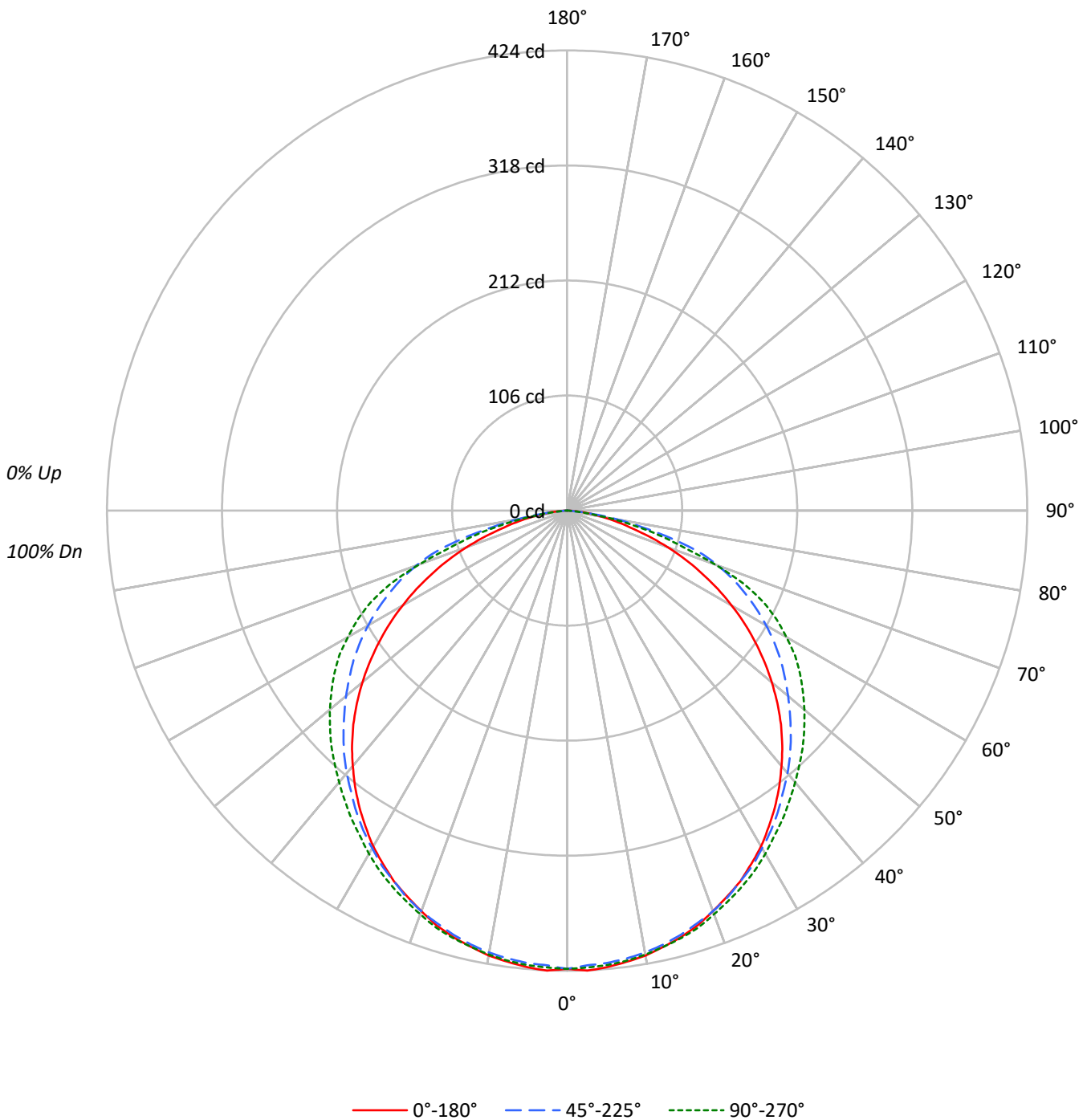
Input Watts (W): 15.345  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1136	1136	1136
5°	1141	1130	1136
10°	1138	1130	1135
15°	1133	1127	1136
20°	1125	1125	1133
25°	1120	1120	1134
30°	1111	1116	1135
35°	1096	1113	1138
40°	1079	1110	1148
45°	1060	1109	1169
50°	1030	1113	1195
55°	993	1127	1229
60°	943	1139	1256
65°	871	1153	1272
70°	774	1162	1138
75°	625	1044	911
80°	488	733	595
85°	333	213	151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	3.2
10°-20°	114.7	9.1
20°-30°	174.6	13.8
30°-40°	212.7	16.9
40°-50°	225.7	17.9
50°-60°	213.0	16.9
60°-70°	172.0	13.6
70°-80°	93.3	7.4
80°-90°	15.1	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°	329.3	26.1
0°-40°	542.0	43.0
0°-60°	980.7	77.8
0°-90°	1261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	422	421	418	421	420	40
15°	407	406	405	408	408	115
25°	377	376	377	381	382	174
35°	334	336	339	346	346	209
45°	279	282	291	302	307	215
55°	212	220	240	256	262	189
65°	137	154	181	196	200	136
75°	60	88	100	91	88	66
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	422.3	422.3	422.3	422.3	422.3
2.5°	424.3	422.3	419.4	422.3	421.4
5°	422.3	421.4	418.4	421.4	420.4
7.5°	419.4	419.4	416.4	418.4	418.4
10°	416.4	415.4	413.5	416.4	415.4
12.5°	411.5	410.5	409.5	412.5	411.5
15°	406.6	405.6	404.6	407.6	407.6
17.5°	400.7	399.7	398.7	402.7	402.7
20°	392.8	392.8	392.8	396.7	395.8
22.5°	384.9	384.9	385.9	389.9	388.9
25°	377.1	376.1	377.1	381.0	382.0
27.5°	367.2	368.2	369.2	373.1	374.1
30°	357.4	358.4	359.3	364.3	365.2
32.5°	345.6	347.5	349.5	355.4	355.4
35°	333.7	335.7	338.7	345.6	346.5
37.5°	320.9	322.9	326.8	334.7	336.7
40°	307.2	310.1	316.0	323.9	326.8
42.5°	293.4	297.3	304.2	313.1	317.0
45°	278.6	282.5	291.4	302.2	307.2
47.5°	262.9	267.8	278.6	292.4	296.3
50°	246.1	253.0	265.8	280.6	285.5
52.5°	229.4	237.3	253.0	268.8	273.7
55°	211.7	220.5	240.2	256.0	261.9
57.5°	193.9	203.8	226.4	243.2	249.1
60°	175.2	187.1	211.7	228.4	233.3
62.5°	156.5	170.3	196.9	213.6	217.6
65°	136.8	153.6	181.1	195.9	199.8
67.5°	118.1	137.8	165.4	176.2	176.2
70°	98.4	120.1	147.7	150.6	144.7
72.5°	78.8	103.4	128.0	117.2	112.2
75°	60.1	87.6	100.4	90.6	87.6
77.5°	45.3	70.9	70.9	65.0	63.0
80°	31.5	54.1	47.3	41.3	38.4
82.5°	20.7	30.5	24.6	19.7	16.7
85°	10.8	11.8	6.9	5.9	4.9
87.5°	3.9	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)