

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: P275791

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275791
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1391.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

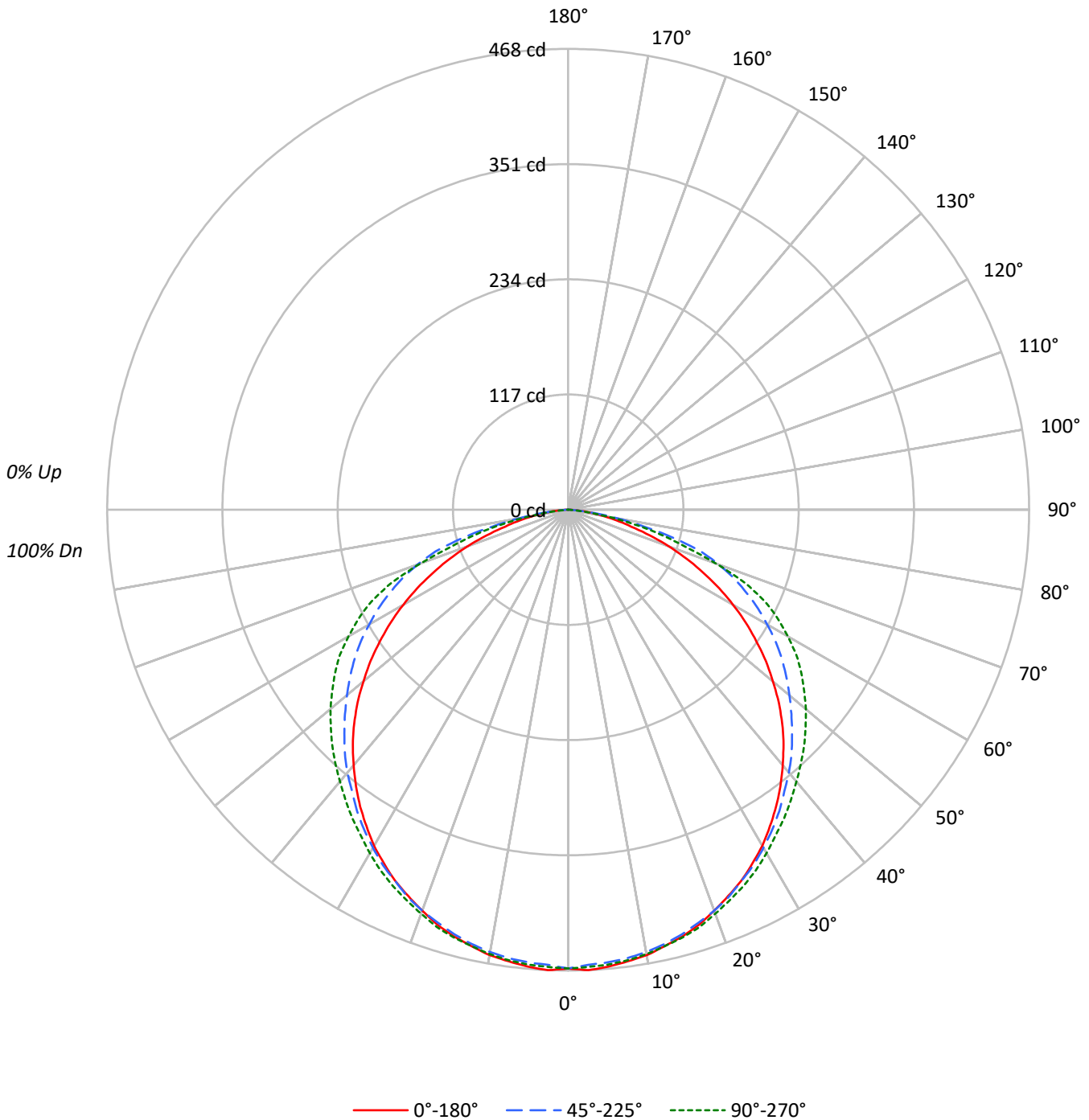
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254	1254	1254
5°	1259	1247	1253
10°	1255	1246	1252
15°	1249	1243	1253
20°	1241	1241	1250
25°	1235	1235	1251
30°	1225	1232	1252
35°	1209	1227	1256
40°	1190	1225	1266
45°	1169	1223	1289
50°	1137	1227	1318
55°	1095	1243	1355
60°	1040	1257	1385
65°	961	1272	1404
70°	854	1282	1256
75°	688	1152	1005
80°	539	807	657
85°	367	235	167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.2
10°-20°	126.5	9.1
20°-30°	192.6	13.8
30°-40°	234.6	16.9
40°-50°	248.9	17.9
50°-60°	234.9	16.9
60°-70°	189.7	13.6
70°-80°	102.9	7.4
80°-90°	16.6	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°	363.2	26.1
0°-40°	597.9	43.0
0°-60°	1081.8	77.8
0°-90°	1391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	466	465	462	465	464	44
15°	448	447	446	450	450	127
25°	416	415	416	420	421	191
35°	368	370	374	381	382	230
45°	307	312	321	333	339	237
55°	234	243	265	282	289	209
65°	151	169	200	216	220	150
75°	66	97	111	100	97	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.9	465.9	465.9	465.9	465.9
2.5°	468.1	465.9	462.6	465.9	464.8
5°	465.9	464.8	461.5	464.8	463.7
7.5°	462.6	462.6	459.4	461.5	461.5
10°	459.4	458.3	456.1	459.4	458.3
12.5°	453.9	452.8	451.8	455.0	453.9
15°	448.5	447.4	446.3	449.6	449.6
17.5°	442.0	440.9	439.8	444.2	444.2
20°	433.3	433.3	433.3	437.6	436.6
22.5°	424.6	424.6	425.7	430.0	429.0
25°	415.9	414.8	415.9	420.3	421.4
27.5°	405.1	406.2	407.2	411.6	412.7
30°	394.2	395.3	396.4	401.8	402.9
32.5°	381.2	383.3	385.5	392.0	392.0
35°	368.1	370.3	373.6	381.2	382.3
37.5°	354.0	356.2	360.5	369.2	371.4
40°	338.8	342.1	348.6	357.3	360.5
42.5°	323.6	328.0	335.6	345.3	349.7
45°	307.3	311.7	321.4	333.4	338.8
47.5°	290.0	295.4	307.3	322.5	326.9
50°	271.5	279.1	293.2	309.5	314.9
52.5°	253.0	261.7	279.1	296.5	301.9
55°	233.5	243.3	265.0	282.4	288.9
57.5°	213.9	224.8	249.8	268.2	274.8
60°	193.3	206.3	233.5	251.9	257.4
62.5°	172.7	187.9	217.2	235.7	240.0
65°	150.9	169.4	199.8	216.1	220.5
67.5°	130.3	152.0	182.4	194.4	194.4
70°	108.6	132.5	162.9	166.2	159.6
72.5°	86.9	114.0	141.2	129.2	123.8
75°	66.2	96.7	110.8	99.9	96.7
77.5°	50.0	78.2	78.2	71.7	69.5
80°	34.8	59.7	52.1	45.6	42.4
82.5°	22.8	33.7	27.1	21.7	18.5
85°	11.9	13.0	7.6	6.5	5.4
87.5°	4.3	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)