

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: P275784

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275784
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-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1224.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

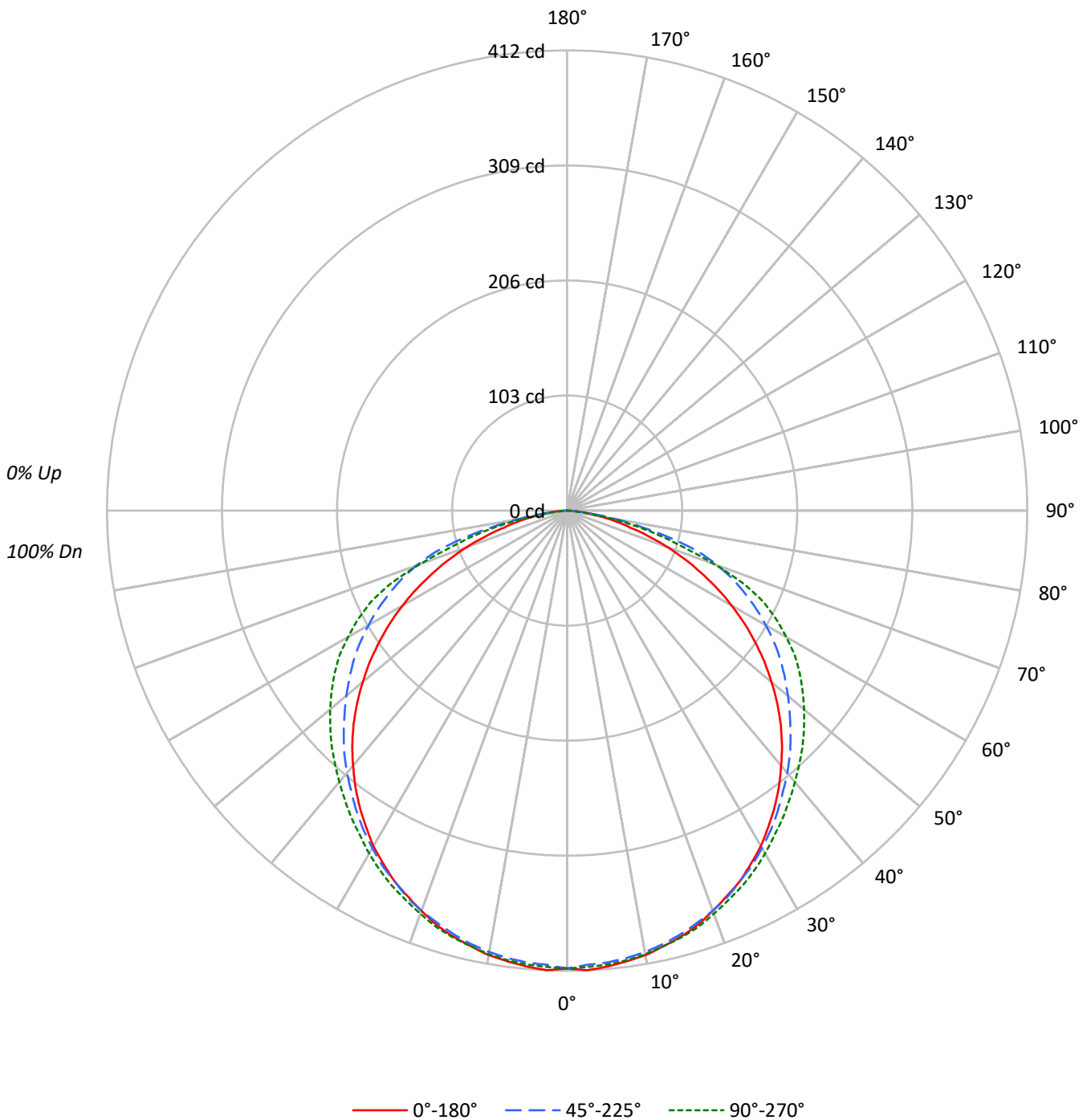
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1103	1103	1103
5°	1107	1097	1102
10°	1104	1097	1102
15°	1100	1094	1102
20°	1092	1092	1100
25°	1087	1087	1101
30°	1078	1084	1102
35°	1064	1080	1105
40°	1047	1077	1115
45°	1029	1077	1134
50°	1000	1080	1160
55°	964	1094	1193
60°	915	1106	1219
65°	846	1119	1235
70°	752	1127	1105
75°	606	1014	884
80°	474	711	578
85°	324	207	148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	3.2
10°-20°	111.3	9.1
20°-30°	169.5	13.8
30°-40°	206.5	16.9
40°-50°	219.0	17.9
50°-60°	206.7	16.9
60°-70°	166.9	13.6
70°-80°	90.5	7.4
80°-90°	14.7	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°	319.6	26.1
0°-40°	526.1	43.0
0°-60°	951.9	77.8
0°-90°	1224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	410	409	406	409	408	39
15°	395	394	393	396	396	111
25°	366	365	366	370	371	168
35°	324	326	329	335	336	203
45°	270	274	283	293	298	208
55°	206	214	233	248	254	184
65°	133	149	176	190	194	132
75°	58	85	98	88	85	64
85°	10	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°	409.9	409.9	409.9	409.9	409.9
2.5°	411.9	409.9	407.1	409.9	409.0
5°	409.9	409.0	406.1	409.0	408.0
7.5°	407.1	407.1	404.2	406.1	406.1
10°	404.2	403.3	401.3	404.2	403.3
12.5°	399.4	398.5	397.5	400.4	399.4
15°	394.7	393.7	392.7	395.6	395.6
17.5°	388.9	388.0	387.0	390.8	390.8
20°	381.3	381.3	381.3	385.1	384.1
22.5°	373.6	373.6	374.6	378.4	377.5
25°	366.0	365.0	366.0	369.8	370.8
27.5°	356.4	357.4	358.3	362.2	363.1
30°	346.9	347.8	348.8	353.6	354.5
32.5°	335.4	337.3	339.2	345.0	345.0
35°	323.9	325.9	328.7	335.4	336.4
37.5°	311.5	313.4	317.3	324.9	326.8
40°	298.1	301.0	306.7	314.4	317.3
42.5°	284.8	288.6	295.3	303.9	307.7
45°	270.4	274.3	282.9	293.4	298.1
47.5°	255.1	259.9	270.4	283.8	287.6
50°	238.9	245.6	258.0	272.3	277.1
52.5°	222.7	230.3	245.6	260.9	265.7
55°	205.5	214.1	233.2	248.5	254.2
57.5°	188.3	197.8	219.8	236.0	241.8
60°	170.1	181.6	205.5	221.7	226.5
62.5°	151.9	165.3	191.1	207.4	211.2
65°	132.8	149.1	175.8	190.2	194.0
67.5°	114.7	133.8	160.5	171.1	171.1
70°	95.6	116.6	143.3	146.2	140.5
72.5°	76.4	100.3	124.2	113.7	108.9
75°	58.3	85.0	97.5	87.9	85.0
77.5°	44.0	68.8	68.8	63.1	61.2
80°	30.6	52.6	45.9	40.1	37.3
82.5°	20.1	29.6	23.9	19.1	16.2
85°	10.5	11.5	6.7	5.7	4.8
87.5°	3.8	1.9	1.0	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)