

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: P275756

Luminaire Tested: **14CZ2-20-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275756
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1225.0 lumens
Efficiency: N/A
Efficacy: 77.9 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

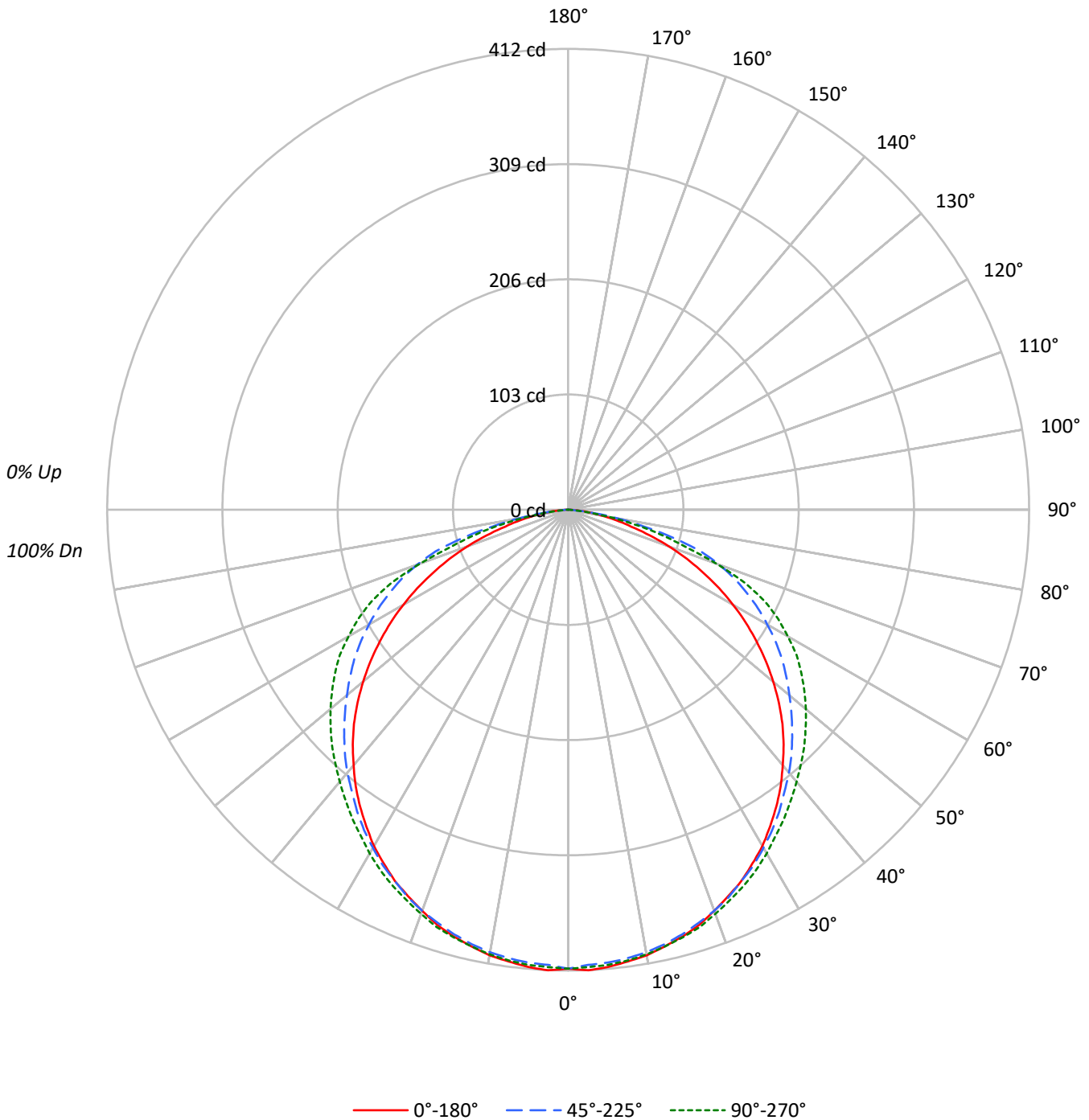
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1104	1104	1104
5°	1108	1098	1103
10°	1105	1098	1103
15°	1100	1095	1103
20°	1093	1093	1101
25°	1088	1088	1102
30°	1079	1085	1102
35°	1065	1081	1106
40°	1048	1078	1115
45°	1030	1077	1136
50°	1001	1081	1161
55°	965	1095	1194
60°	916	1107	1220
65°	846	1121	1236
70°	752	1129	1106
75°	606	1014	885
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°	111.4	9.1
20°-30°	169.6	13.8
30°-40°	206.6	16.9
40°-50°	219.2	17.9
50°-60°	206.9	16.9
60°-70°	167.1	13.6
70°-80°	90.6	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°	319.9	26.1
0°-40°	526.5	43.0
0°-60°	952.7	77.8
0°-90°	1225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.0	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	169
35°	324	326	329	336	337	203
45°	271	274	283	294	298	208
55°	206	214	233	249	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°	410.3	410.3	410.3	410.3	410.3
2.5°	412.2	410.3	407.4	410.3	409.3
5°	410.3	409.3	406.5	409.3	408.4
7.5°	407.4	407.4	404.5	406.5	406.5
10°	404.5	403.6	401.7	404.5	403.6
12.5°	399.8	398.8	397.9	400.7	399.8
15°	395.0	394.0	393.1	395.9	395.9
17.5°	389.2	388.3	387.3	391.2	391.2
20°	381.6	381.6	381.6	385.4	384.5
22.5°	373.9	373.9	374.9	378.7	377.8
25°	366.3	365.3	366.3	370.1	371.1
27.5°	356.7	357.7	358.6	362.5	363.4
30°	347.2	348.1	349.1	353.9	354.8
32.5°	335.7	337.6	339.5	345.3	345.3
35°	324.2	326.1	329.0	335.7	336.6
37.5°	311.8	313.7	317.5	325.2	327.1
40°	298.4	301.3	307.0	314.6	317.5
42.5°	285.0	288.8	295.5	304.1	308.0
45°	270.7	274.5	283.1	293.6	298.4
47.5°	255.4	260.1	270.7	284.0	287.9
50°	239.1	245.8	258.2	272.6	277.3
52.5°	222.8	230.5	245.8	261.1	265.9
55°	205.6	214.2	233.4	248.7	254.4
57.5°	188.4	198.0	220.0	236.2	242.0
60°	170.2	181.7	205.6	221.9	226.7
62.5°	152.1	165.5	191.3	207.5	211.4
65°	132.9	149.2	176.0	190.3	194.1
67.5°	114.8	133.9	160.7	171.2	171.2
70°	95.6	116.7	143.5	146.3	140.6
72.5°	76.5	100.4	124.3	113.8	109.0
75°	58.3	85.1	97.5	88.0	85.1
77.5°	44.0	68.9	68.9	63.1	61.2
80°	30.6	52.6	45.9	40.2	37.3
82.5°	20.1	29.6	23.9	19.1	16.3
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)