

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: P275755

Luminaire Tested: **14CZ2-20-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275755
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1134.0 lumens
Efficiency: N/A
Efficacy: 72.6 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

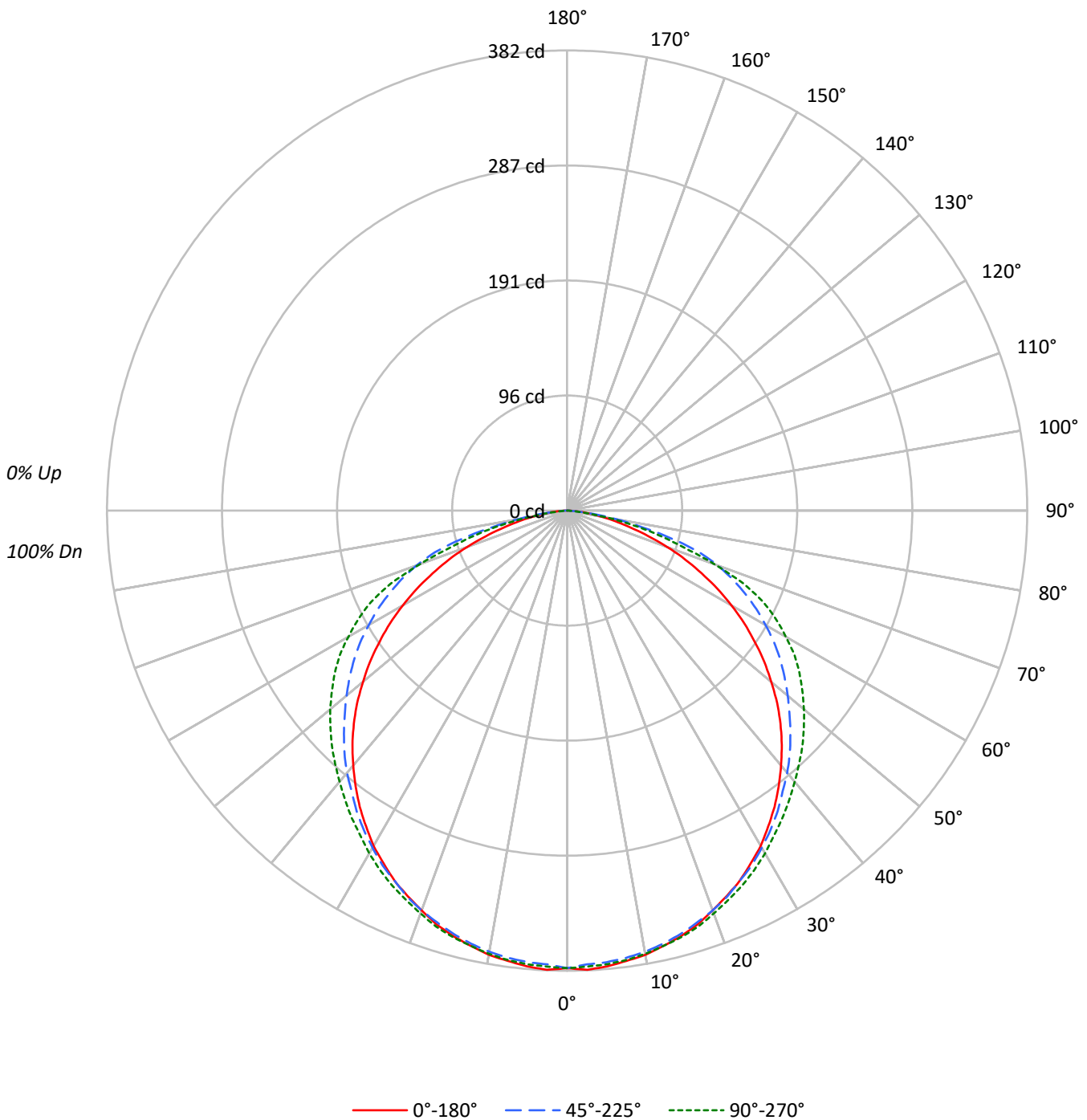
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1022	1022	1022
5°	1026	1016	1021
10°	1023	1016	1021
15°	1019	1014	1021
20°	1011	1011	1019
25°	1007	1007	1020
30°	999	1004	1021
35°	986	1001	1024
40°	970	998	1032
45°	953	997	1051
50°	926	1001	1075
55°	893	1013	1105
60°	848	1024	1129
65°	784	1037	1144
70°	696	1045	1024
75°	561	939	819
80°	439	659	535
85°	299	191	136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	3.2
10°-20°	103.1	9.1
20°-30°	157.0	13.8
30°-40°	191.3	16.9
40°-50°	202.9	17.9
50°-60°	191.5	16.9
60°-70°	154.6	13.6
70°-80°	83.9	7.4
80°-90°	13.6	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°	296.1	26.1
0°-40°	487.4	43.0
0°-60°	881.9	77.8
0°-90°	1134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	380	380	380	380	380	
5°	380	379	376	379	378	36
15°	366	365	364	366	366	103
25°	339	338	339	343	344	156
35°	300	302	305	311	312	188
45°	250	254	262	272	276	193
55°	190	198	216	230	236	170
65°	123	138	163	176	180	122
75°	54	79	90	82	79	59
85°	10	11	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°	379.8	379.8	379.8	379.8	379.8
2.5°	381.6	379.8	377.1	379.8	378.9
5°	379.8	378.9	376.3	378.9	378.0
7.5°	377.1	377.1	374.5	376.3	376.3
10°	374.5	373.6	371.8	374.5	373.6
12.5°	370.1	369.2	368.3	371.0	370.1
15°	365.6	364.8	363.9	366.5	366.5
17.5°	360.3	359.4	358.6	362.1	362.1
20°	353.2	353.2	353.2	356.8	355.9
22.5°	346.2	346.2	347.0	350.6	349.7
25°	339.1	338.2	339.1	342.6	343.5
27.5°	330.2	331.1	332.0	335.5	336.4
30°	321.4	322.3	323.1	327.6	328.5
32.5°	310.8	312.5	314.3	319.6	319.6
35°	300.1	301.9	304.6	310.8	311.6
37.5°	288.6	290.4	293.9	301.0	302.8
40°	276.2	278.9	284.2	291.3	293.9
42.5°	263.8	267.4	273.6	281.5	285.1
45°	250.5	254.1	262.1	271.8	276.2
47.5°	236.4	240.8	250.5	262.9	266.5
50°	221.3	227.5	239.0	252.3	256.7
52.5°	206.3	213.4	227.5	241.7	246.1
55°	190.3	198.3	216.0	230.2	235.5
57.5°	174.4	183.3	203.6	218.7	224.0
60°	157.6	168.2	190.3	205.4	209.8
62.5°	140.8	153.2	177.1	192.1	195.7
65°	123.1	138.1	162.9	176.2	179.7
67.5°	106.2	123.9	148.7	158.5	158.5
70°	88.5	108.0	132.8	135.5	130.1
72.5°	70.8	93.0	115.1	105.4	100.9
75°	54.0	78.8	90.3	81.5	78.8
77.5°	40.7	63.7	63.7	58.4	56.7
80°	28.3	48.7	42.5	37.2	34.5
82.5°	18.6	27.4	22.1	17.7	15.1
85°	9.7	10.6	6.2	5.3	4.4
87.5°	3.5	1.8	0.9	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)