

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: P275840

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275840
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-L92765-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: 1142.0 lumens
Efficiency: N/A
Efficacy: 74.4 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

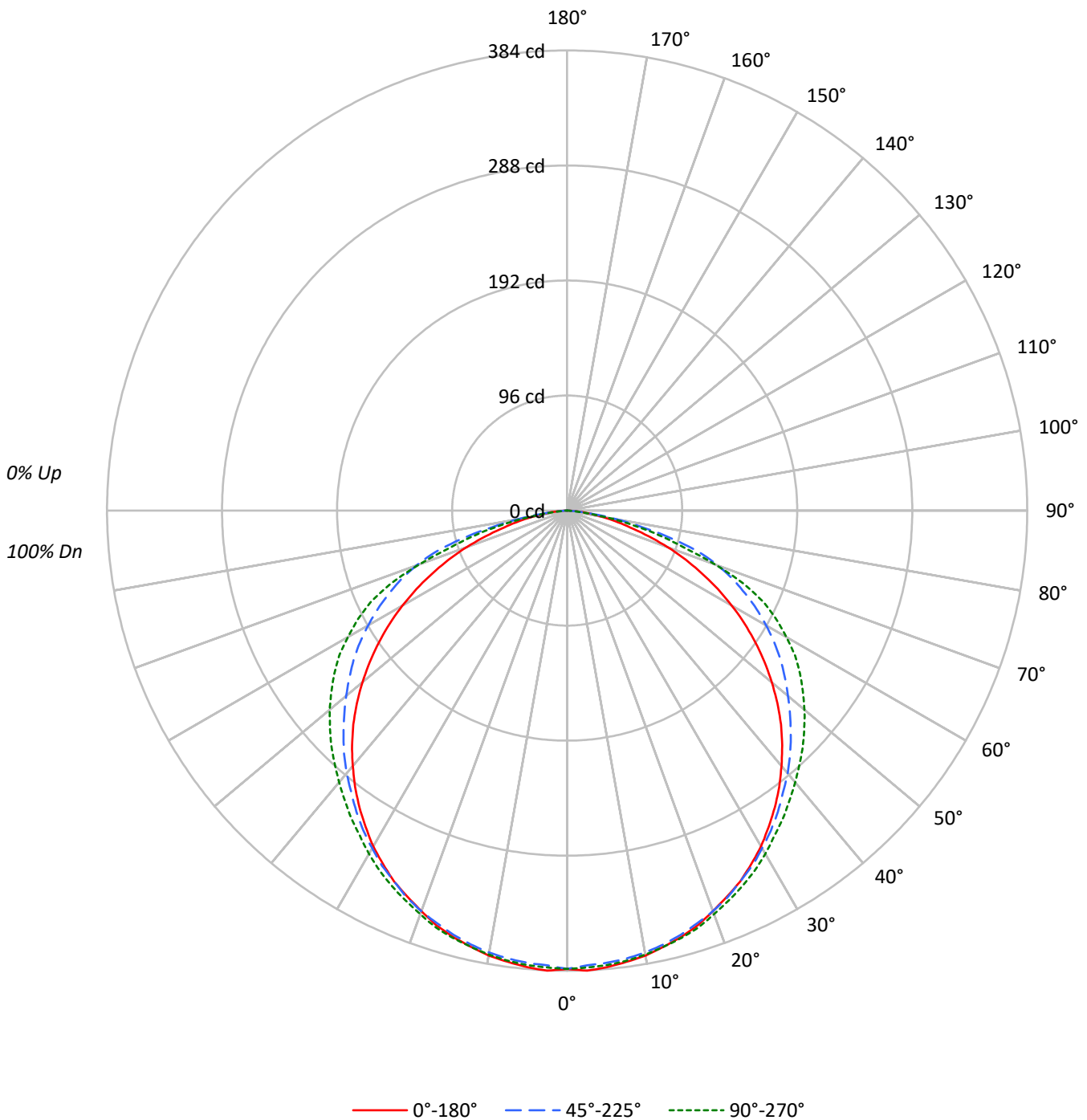
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1029	1029	1029
5°	1033	1024	1028
10°	1030	1023	1028
15°	1026	1021	1028
20°	1019	1019	1026
25°	1014	1014	1027
30°	1006	1011	1028
35°	993	1008	1031
40°	977	1005	1040
45°	960	1004	1059
50°	933	1008	1083
55°	899	1020	1113
60°	854	1032	1137
65°	789	1044	1152
70°	702	1052	1031
75°	566	945	826
80°	442	663	539
85°	303	191	139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	3.2
10°-20°	103.9	9.1
20°-30°	158.2	13.8
30°-40°	192.6	16.9
40°-50°	204.4	17.9
50°-60°	192.9	16.9
60°-70°	155.7	13.6
70°-80°	84.5	7.4
80°-90°	13.7	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°	298.2	26.1
0°-40°	490.8	43.0
0°-60°	888.1	77.8
0°-90°	1142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	382	382	382	382	382	
5°	382	382	379	382	381	36
15°	368	367	366	369	369	104
25°	342	341	342	345	346	157
35°	302	304	307	313	314	189
45°	252	256	264	274	278	194
55°	192	200	218	232	237	171
65°	124	139	164	177	181	123
75°	54	79	91	82	79	59
85°	10	11	6	5	4	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	382.5	382.5	382.5	382.5	382.5
2.5°	384.3	382.5	379.8	382.5	381.6
5°	382.5	381.6	378.9	381.6	380.7
7.5°	379.8	379.8	377.1	378.9	378.9
10°	377.1	376.2	374.5	377.1	376.2
12.5°	372.7	371.8	370.9	373.6	372.7
15°	368.2	367.3	366.4	369.1	369.1
17.5°	362.9	362.0	361.1	364.7	364.7
20°	355.7	355.7	355.7	359.3	358.4
22.5°	348.6	348.6	349.5	353.1	352.2
25°	341.5	340.6	341.5	345.0	345.9
27.5°	332.6	333.4	334.3	337.9	338.8
30°	323.6	324.5	325.4	329.9	330.8
32.5°	312.9	314.7	316.5	321.9	321.9
35°	302.2	304.0	306.7	312.9	313.8
37.5°	290.7	292.4	296.0	303.1	304.9
40°	278.2	280.8	286.2	293.3	296.0
42.5°	265.7	269.3	275.5	283.5	287.1
45°	252.3	255.9	263.9	273.7	278.2
47.5°	238.1	242.5	252.3	264.8	268.4
50°	222.9	229.1	240.7	254.1	258.6
52.5°	207.7	214.9	229.1	243.4	247.9
55°	191.7	199.7	217.5	231.8	237.2
57.5°	175.6	184.6	205.1	220.2	225.6
60°	158.7	169.4	191.7	206.8	211.3
62.5°	141.8	154.2	178.3	193.5	197.0
65°	123.9	139.1	164.0	177.4	181.0
67.5°	107.0	124.8	149.8	159.6	159.6
70°	89.2	108.8	133.7	136.4	131.1
72.5°	71.3	93.6	115.9	106.1	101.6
75°	54.4	79.4	90.9	82.0	79.4
77.5°	41.0	64.2	64.2	58.8	57.1
80°	28.5	49.0	42.8	37.4	34.8
82.5°	18.7	27.6	22.3	17.8	15.2
85°	9.8	10.7	6.2	5.3	4.5
87.5°	3.6	1.8	0.9	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)