

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: P275851

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275851
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: 14CZ2-25-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1411.0 lumens
Efficiency: N/A
Efficacy: 75.9 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

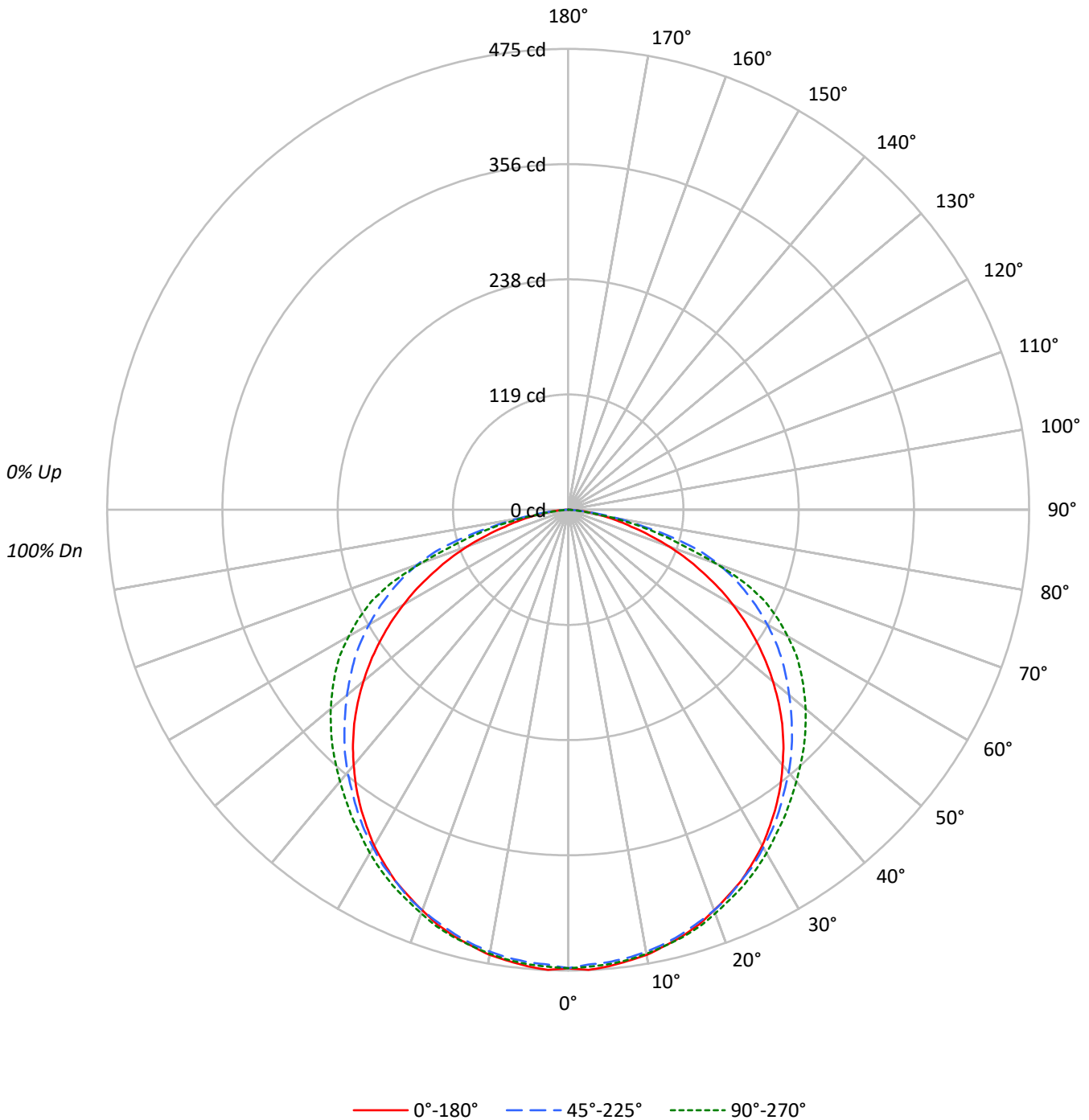
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1272	1272	1272
5°	1277	1265	1271
10°	1273	1264	1270
15°	1268	1261	1271
20°	1259	1259	1268
25°	1253	1253	1269
30°	1243	1249	1270
35°	1227	1245	1274
40°	1207	1242	1285
45°	1186	1241	1308
50°	1153	1245	1338
55°	1111	1261	1375
60°	1055	1274	1405
65°	975	1291	1424
70°	867	1300	1274
75°	699	1169	1019
80°	547	820	666
85°	374	238	170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	3.2
10°-20°	128.3	9.1
20°-30°	195.4	13.8
30°-40°	238.0	16.9
40°-50°	252.5	17.9
50°-60°	238.3	16.9
60°-70°	192.4	13.6
70°-80°	104.4	7.4
80°-90°	16.9	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
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0°-30°	368.5	26.1
0°-40°	606.5	43.0
0°-60°	1097.3	77.8
0°-90°	1411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	473	472	468	472	470	45
15°	455	454	453	456	456	128
25°	422	421	422	426	427	194
35°	373	376	379	387	388	233
45°	312	316	326	338	344	240
55°	237	247	269	286	293	212
65°	153	172	203	219	224	152
75°	67	98	112	101	98	73
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	472.6	472.6	472.6	472.6	472.6
2.5°	474.8	472.6	469.3	472.6	471.5
5°	472.6	471.5	468.2	471.5	470.4
7.5°	469.3	469.3	466.0	468.2	468.2
10°	466.0	464.9	462.7	466.0	464.9
12.5°	460.5	459.4	458.3	461.6	460.5
15°	455.0	453.9	452.8	456.1	456.1
17.5°	448.3	447.2	446.1	450.5	450.5
20°	439.5	439.5	439.5	443.9	442.8
22.5°	430.7	430.7	431.8	436.2	435.1
25°	421.9	420.8	421.9	426.3	427.4
27.5°	410.9	412.0	413.1	417.5	418.6
30°	399.9	401.0	402.1	407.6	408.7
32.5°	386.7	388.9	391.1	397.7	397.7
35°	373.4	375.6	378.9	386.7	387.8
37.5°	359.1	361.3	365.7	374.5	376.7
40°	343.7	347.0	353.6	362.4	365.7
42.5°	328.3	332.7	340.4	350.3	354.7
45°	311.7	316.2	326.1	338.2	343.7
47.5°	294.1	299.6	311.7	327.2	331.6
50°	275.4	283.1	297.4	314.0	319.5
52.5°	256.7	265.5	283.1	300.7	306.2
55°	236.8	246.8	268.8	286.4	293.0
57.5°	217.0	228.0	253.4	272.1	278.7
60°	196.1	209.3	236.8	255.6	261.1
62.5°	175.2	190.6	220.3	239.0	243.5
65°	153.1	171.8	202.7	219.2	223.6
67.5°	132.2	154.2	185.1	197.2	197.2
70°	110.2	134.4	165.2	168.5	161.9
72.5°	88.1	115.7	143.2	131.1	125.6
75°	67.2	98.0	112.4	101.3	98.0
77.5°	50.7	79.3	79.3	72.7	70.5
80°	35.3	60.6	52.9	46.3	43.0
82.5°	23.1	34.1	27.5	22.0	18.7
85°	12.1	13.2	7.7	6.6	5.5
87.5°	4.4	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)