

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: P275856

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275856
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: 14CZ2-29-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1458.0 lumens
Efficiency: N/A
Efficacy: 66.2 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

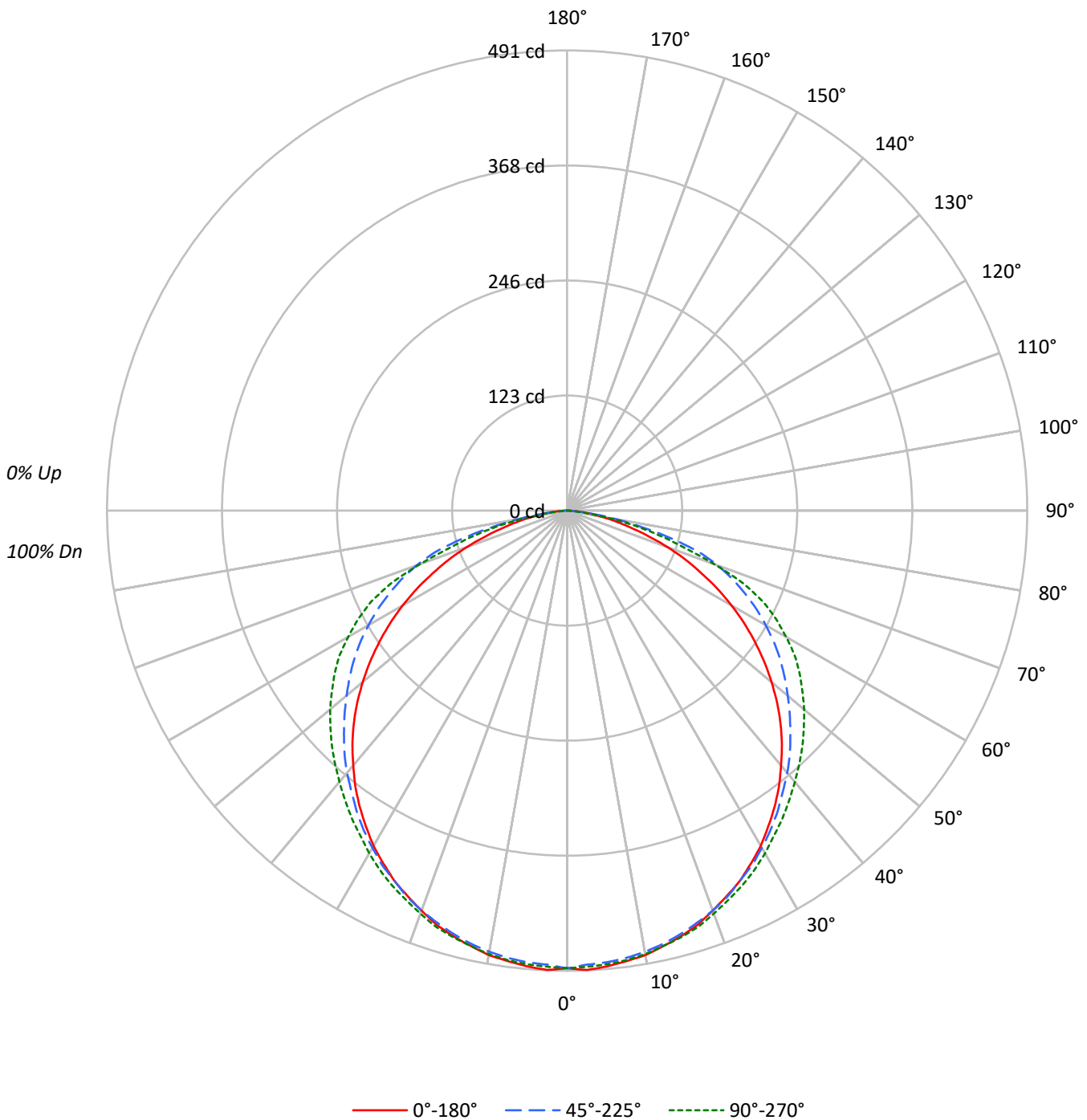
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1314	1314	1314
5°	1319	1307	1313
10°	1316	1306	1313
15°	1310	1303	1313
20°	1301	1301	1310
25°	1295	1295	1311
30°	1284	1291	1312
35°	1268	1286	1316
40°	1247	1284	1327
45°	1226	1282	1351
50°	1191	1286	1382
55°	1148	1303	1421
60°	1090	1317	1452
65°	1007	1333	1472
70°	895	1343	1316
75°	722	1207	1053
80°	564	846	688
85°	386	247	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	3.2
10°-20°	132.6	9.1
20°-30°	201.9	13.8
30°-40°	245.9	16.9
40°-50°	260.9	17.9
50°-60°	246.3	16.9
60°-70°	198.8	13.6
70°-80°	107.9	7.4
80°-90°	17.5	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°	380.8	26.1
0°-40°	626.7	43.0
0°-60°	1133.9	77.8
0°-90°	1458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	488	487	484	487	486	46
15°	470	469	468	471	471	133
25°	436	435	436	440	442	201
35°	386	388	392	400	401	241
45°	322	327	337	350	355	248
55°	245	255	278	296	303	219
65°	158	178	209	226	231	157
75°	69	101	116	105	101	76
85°	12	14	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°	488.3	488.3	488.3	488.3	488.3
2.5°	490.6	488.3	484.9	488.3	487.2
5°	488.3	487.2	483.8	487.2	486.0
7.5°	484.9	484.9	481.5	483.8	483.8
10°	481.5	480.4	478.1	481.5	480.4
12.5°	475.8	474.7	473.5	476.9	475.8
15°	470.1	469.0	467.8	471.2	471.2
17.5°	463.3	462.1	461.0	465.6	465.6
20°	454.2	454.2	454.2	458.7	457.6
22.5°	445.1	445.1	446.2	450.8	449.6
25°	436.0	434.8	436.0	440.5	441.7
27.5°	424.6	425.7	426.9	431.4	432.5
30°	413.2	414.3	415.5	421.2	422.3
32.5°	399.5	401.8	404.1	410.9	410.9
35°	385.9	388.2	391.6	399.5	400.7
37.5°	371.1	373.4	377.9	387.0	389.3
40°	355.1	358.6	365.4	374.5	377.9
42.5°	339.2	343.8	351.7	362.0	366.5
45°	322.1	326.7	336.9	349.5	355.1
47.5°	303.9	309.6	322.1	338.1	342.6
50°	284.6	292.5	307.3	324.4	330.1
52.5°	265.2	274.3	292.5	310.8	316.4
55°	244.7	255.0	277.7	296.0	302.8
57.5°	224.2	235.6	261.8	281.2	288.0
60°	202.6	216.3	244.7	264.1	269.8
62.5°	181.0	196.9	227.7	247.0	251.6
65°	158.2	177.6	209.4	226.5	231.1
67.5°	136.6	159.4	191.2	203.8	203.8
70°	113.8	138.9	170.7	174.2	167.3
72.5°	91.1	119.5	148.0	135.5	129.8
75°	69.4	101.3	116.1	104.7	101.3
77.5°	52.4	82.0	82.0	75.1	72.8
80°	36.4	62.6	54.6	47.8	44.4
82.5°	23.9	35.3	28.5	22.8	19.4
85°	12.5	13.7	8.0	6.8	5.7
87.5°	4.6	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)