

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: P275761

Luminaire Tested: **14CZ2-25-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275761
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-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: 1429.0 lumens
Efficiency: N/A
Efficacy: 76.4 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

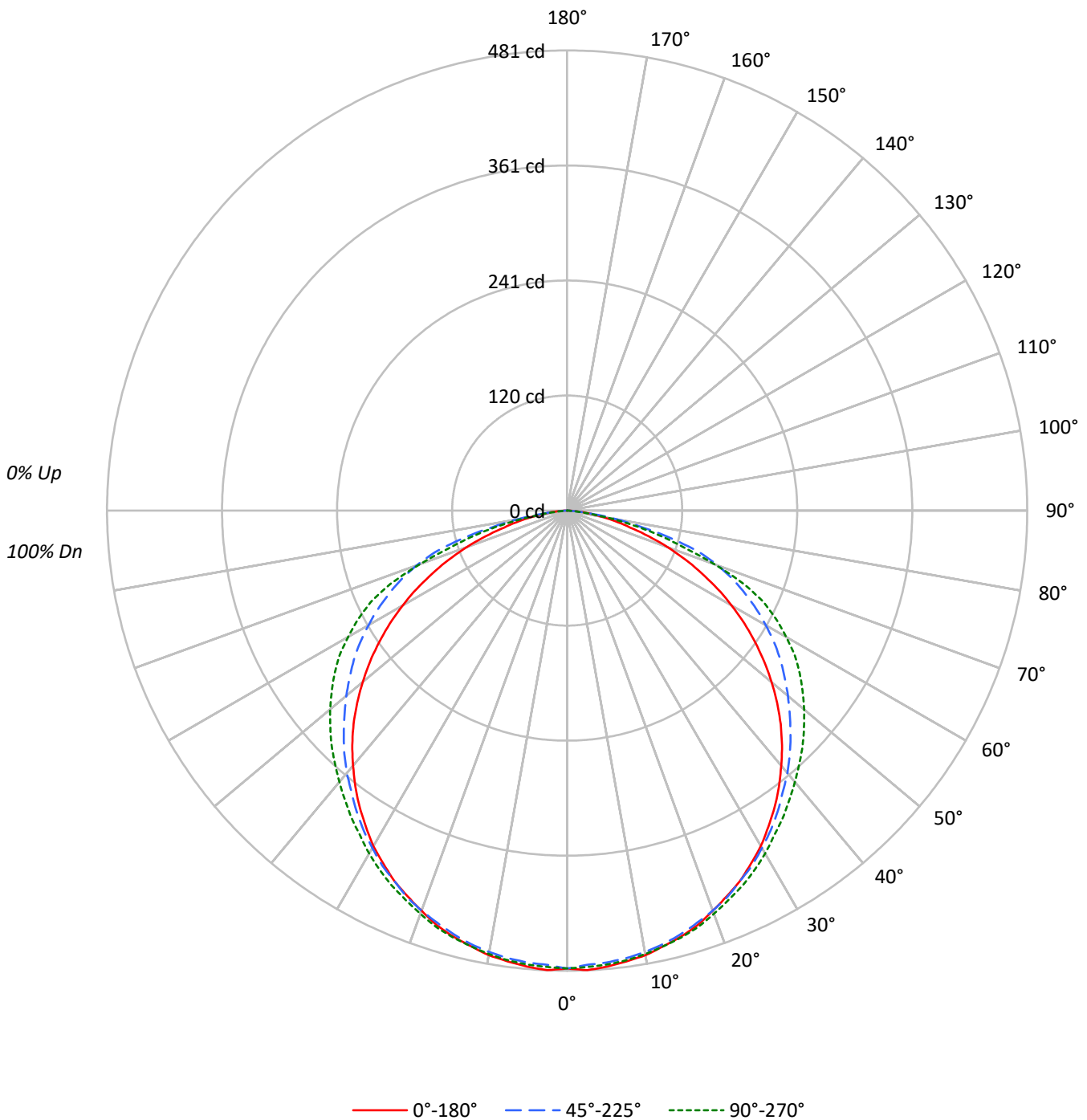
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1288	1288	1288
5°	1293	1281	1287
10°	1289	1280	1286
15°	1284	1277	1287
20°	1275	1275	1284
25°	1269	1269	1285
30°	1258	1265	1286
35°	1242	1261	1290
40°	1223	1258	1301
45°	1201	1257	1325
50°	1168	1261	1354
55°	1126	1277	1392
60°	1069	1291	1423
65°	988	1307	1442
70°	878	1316	1290
75°	708	1183	1032
80°	553	831	674
85°	380	241	173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.2
10°-20°	130.0	9.1
20°-30°	197.9	13.8
30°-40°	241.0	16.9
40°-50°	255.7	17.9
50°-60°	241.4	16.9
60°-70°	194.9	13.6
70°-80°	105.7	7.4
80°-90°	17.1	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°	373.2	26.1
0°-40°	614.2	43.0
0°-60°	1111.3	77.8
0°-90°	1429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	479	478	474	478	476	45
15°	461	460	458	462	462	130
25°	427	426	427	432	433	197
35°	378	380	384	392	393	236
45°	316	320	330	342	348	243
55°	240	250	272	290	297	214
65°	155	174	205	222	226	154
75°	68	99	114	103	99	74
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°	478.6	478.6	478.6	478.6	478.6
2.5°	480.8	478.6	475.3	478.6	477.5
5°	478.6	477.5	474.1	477.5	476.4
7.5°	475.3	475.3	471.9	474.1	474.1
10°	471.9	470.8	468.6	471.9	470.8
12.5°	466.3	465.2	464.1	467.5	466.3
15°	460.8	459.6	458.5	461.9	461.9
17.5°	454.1	452.9	451.8	456.3	456.3
20°	445.1	445.1	445.1	449.6	448.5
22.5°	436.2	436.2	437.3	441.8	440.7
25°	427.3	426.2	427.3	431.8	432.9
27.5°	416.1	417.2	418.4	422.8	423.9
30°	405.0	406.1	407.2	412.8	413.9
32.5°	391.6	393.8	396.1	402.7	402.7
35°	378.2	380.4	383.8	391.6	392.7
37.5°	363.7	365.9	370.4	379.3	381.5
40°	348.1	351.4	358.1	367.0	370.4
42.5°	332.5	336.9	344.7	354.8	359.2
45°	315.7	320.2	330.2	342.5	348.1
47.5°	297.9	303.5	315.7	331.3	335.8
50°	278.9	286.7	301.2	318.0	323.5
52.5°	259.9	268.9	286.7	304.6	310.1
55°	239.9	249.9	272.2	290.1	296.8
57.5°	219.8	230.9	256.6	275.6	282.3
60°	198.6	212.0	239.9	258.8	264.4
62.5°	177.4	193.0	223.1	242.1	246.6
65°	155.1	174.0	205.3	222.0	226.5
67.5°	133.9	156.2	187.4	199.7	199.7
70°	111.6	136.1	167.3	170.7	164.0
72.5°	89.3	117.1	145.0	132.8	127.2
75°	68.1	99.3	113.8	102.6	99.3
77.5°	51.3	80.3	80.3	73.6	71.4
80°	35.7	61.4	53.6	46.9	43.5
82.5°	23.4	34.6	27.9	22.3	19.0
85°	12.3	13.4	7.8	6.7	5.6
87.5°	4.5	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)