

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: P258874

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1484.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

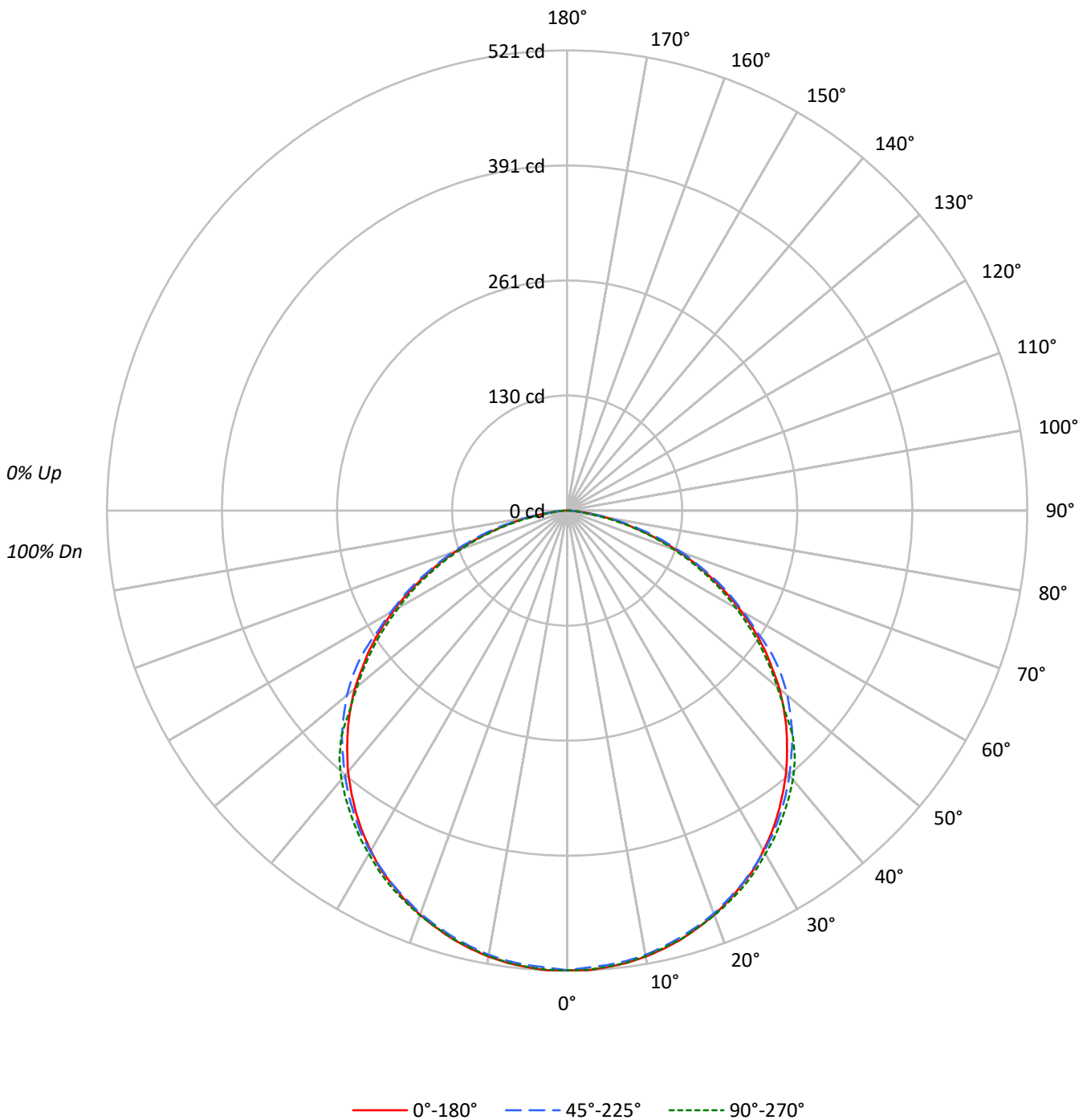
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1400	1400	1400
5°	1402	1395	1401
10°	1401	1396	1400
15°	1399	1392	1397
20°	1395	1391	1396
25°	1389	1387	1397
30°	1381	1384	1395
35°	1370	1381	1395
40°	1356	1375	1397
45°	1337	1373	1375
50°	1314	1363	1300
55°	1278	1328	1253
60°	1223	1242	1187
65°	1145	1177	1115
70°	1042	1085	1009
75°	870	950	855
80°	690	727	592
85°	448	389	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.3
10°-20°	141.5	9.5
20°-30°	216.0	14.6
30°-40°	263.4	17.7
40°-50°	275.8	18.6
50°-60°	245.3	16.5
60°-70°	181.0	12.2
70°-80°	93.5	6.3
80°-90°	18.2	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°	406.8	27.4
0°-40°	670.2	45.2
0°-60°	1191.3	80.3
0°-90°	1484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	519	518	517	518	518	49
15°	502	502	500	502	502	142
25°	468	468	467	471	471	216
35°	417	417	420	425	425	261
45°	351	354	361	364	361	271
55°	272	278	283	271	267	243
65°	180	192	185	178	175	178
75°	84	92	91	84	82	90
85°	14	16	13	12	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.4	520.4	520.4	520.4	520.4
2.5°	520.9	520.4	518.0	520.4	520.4
5°	519.0	518.5	516.6	518.5	518.5
7.5°	516.6	516.1	514.2	516.1	516.1
10°	512.7	512.2	510.8	512.7	512.2
12.5°	507.9	507.9	505.5	507.9	506.9
15°	502.1	501.6	499.6	501.6	501.6
17.5°	494.8	494.3	492.9	495.3	494.3
20°	487.1	486.6	485.6	488.0	487.6
22.5°	477.9	477.9	476.4	479.3	479.3
25°	467.7	467.7	467.2	470.6	470.6
27.5°	457.6	456.6	456.6	460.0	460.5
30°	444.5	444.5	445.5	449.3	448.9
32.5°	431.4	431.9	433.9	437.3	437.7
35°	416.9	417.4	420.3	425.2	424.7
37.5°	401.5	402.9	406.3	411.6	411.6
40°	386.0	386.9	391.3	397.1	397.6
42.5°	368.6	371.0	375.8	382.6	381.6
45°	351.2	353.6	360.8	364.2	361.3
47.5°	332.8	335.7	342.9	343.4	333.7
50°	313.9	317.3	325.5	315.8	310.5
52.5°	292.1	298.4	305.7	292.1	288.8
55°	272.3	278.1	283.0	270.9	267.0
57.5°	250.1	257.8	254.4	248.6	243.8
60°	227.3	235.6	230.7	224.9	220.6
62.5°	204.1	213.3	208.5	202.7	198.8
65°	179.9	192.5	184.8	178.5	175.1
67.5°	157.2	169.3	160.1	155.3	151.9
70°	132.5	142.7	137.9	131.6	128.2
72.5°	108.3	116.1	114.6	107.9	105.4
75°	83.7	92.4	91.4	84.2	82.2
77.5°	62.9	71.1	68.2	62.4	60.0
80°	44.5	49.8	46.9	40.1	38.2
82.5°	27.1	31.4	26.6	22.7	20.8
85°	14.5	16.0	12.6	11.6	11.1
87.5°	5.3	5.3	5.3	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)