

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: P275770

Luminaire Tested: **14CZ2-35-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275770
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: 14CZ2-35-RDP-UNV-L93050-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: 1901.0 lumens
Efficiency: N/A
Efficacy: 67.9 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

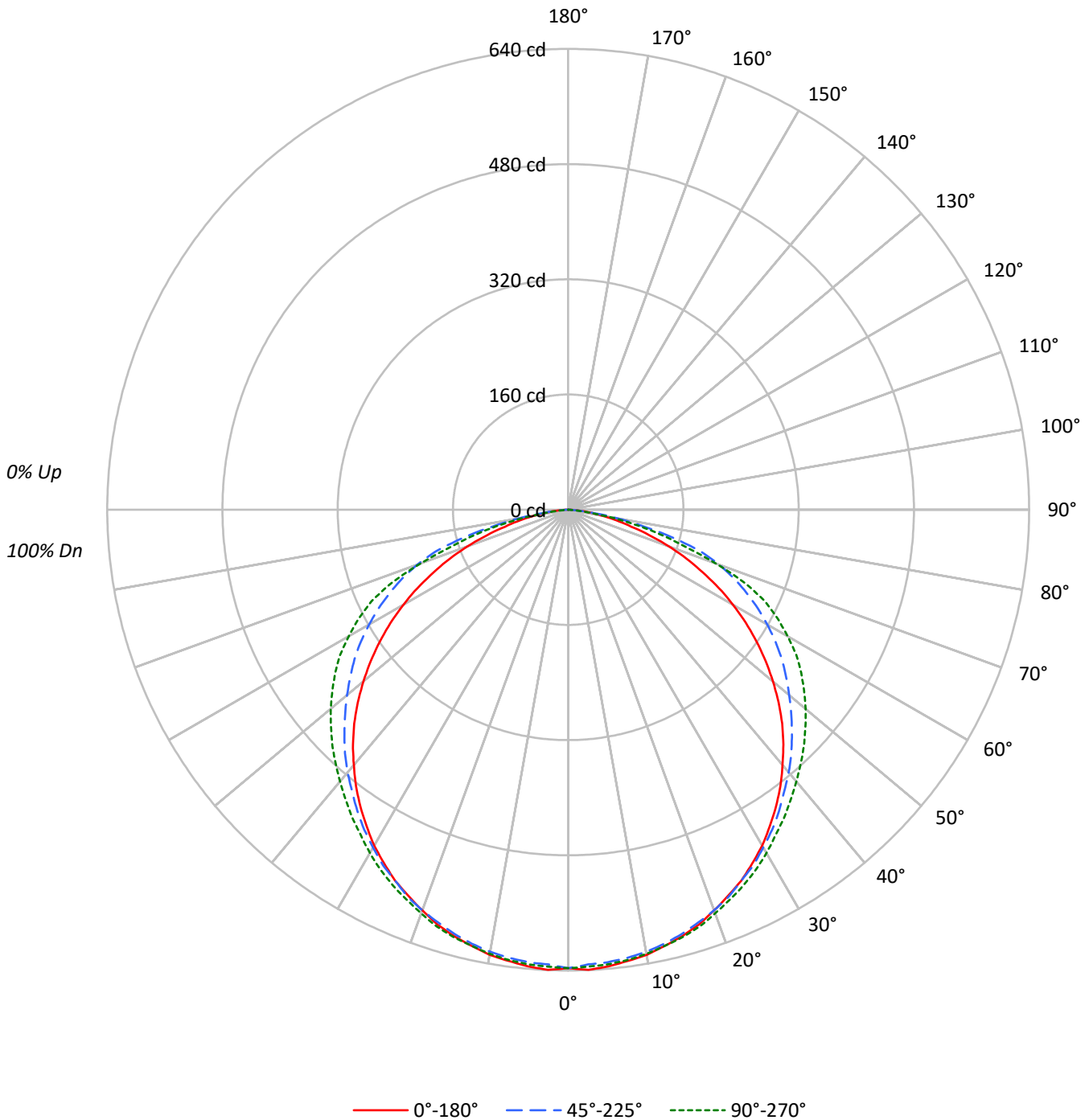
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1713	1713	1713
5°	1720	1704	1712
10°	1715	1703	1711
15°	1707	1699	1712
20°	1696	1696	1708
25°	1688	1688	1710
30°	1674	1683	1711
35°	1653	1677	1716
40°	1626	1674	1731
45°	1598	1672	1762
50°	1553	1677	1802
55°	1497	1699	1852
60°	1422	1717	1893
65°	1314	1739	1918
70°	1168	1751	1717
75°	941	1574	1373
80°	736	1103	897
85°	503	321	228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.2
10°-20°	172.9	9.1
20°-30°	263.3	13.8
30°-40°	320.7	16.9
40°-50°	340.2	17.9
50°-60°	321.1	16.9
60°-70°	259.2	13.6
70°-80°	140.6	7.4
80°-90°	22.8	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°	496.4	26.1
0°-40°	817.1	43.0
0°-60°	1478.4	77.8
0°-90°	1901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	637	635	631	635	634	60
15°	613	612	610	614	614	173
25°	568	567	568	574	576	262
35°	503	506	510	521	522	315
45°	420	426	439	456	463	323
55°	319	332	362	386	395	285
65°	206	232	273	295	301	204
75°	90	132	151	136	132	99
85°	16	18	10	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.7	636.7	636.7	636.7	636.7
2.5°	639.7	636.7	632.2	636.7	635.2
5°	636.7	635.2	630.8	635.2	633.7
7.5°	632.2	632.2	627.8	630.8	630.8
10°	627.8	626.3	623.3	627.8	626.3
12.5°	620.4	618.9	617.4	621.9	620.4
15°	612.9	611.5	610.0	614.4	614.4
17.5°	604.0	602.6	601.1	607.0	607.0
20°	592.2	592.2	592.2	598.1	596.6
22.5°	580.3	580.3	581.8	587.7	586.2
25°	568.4	566.9	568.4	574.4	575.8
27.5°	553.6	555.1	556.6	562.5	564.0
30°	538.7	540.2	541.7	549.1	550.6
32.5°	520.9	523.9	526.9	535.8	535.8
35°	503.1	506.1	510.5	520.9	522.4
37.5°	483.8	486.8	492.7	504.6	507.6
40°	463.0	467.5	476.4	488.3	492.7
42.5°	442.3	448.2	458.6	472.0	477.9
45°	420.0	425.9	439.3	455.6	463.0
47.5°	396.3	403.7	420.0	440.8	446.7
50°	371.0	381.4	400.7	423.0	430.4
52.5°	345.8	357.7	381.4	405.2	412.6
55°	319.1	332.4	362.1	385.9	394.8
57.5°	292.4	307.2	341.4	366.6	375.5
60°	264.2	282.0	319.1	344.3	351.7
62.5°	236.0	256.8	296.8	322.1	328.0
65°	206.3	231.5	273.1	295.3	301.3
67.5°	178.1	207.8	249.3	265.7	265.7
70°	148.4	181.1	222.6	227.1	218.2
72.5°	118.7	155.8	192.9	176.6	169.2
75°	90.5	132.1	151.4	136.5	132.1
77.5°	68.3	106.9	106.9	98.0	95.0
80°	47.5	81.6	71.2	62.3	57.9
82.5°	31.2	46.0	37.1	29.7	25.2
85°	16.3	17.8	10.4	8.9	7.4
87.5°	5.9	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)