

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: P275496

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4292.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

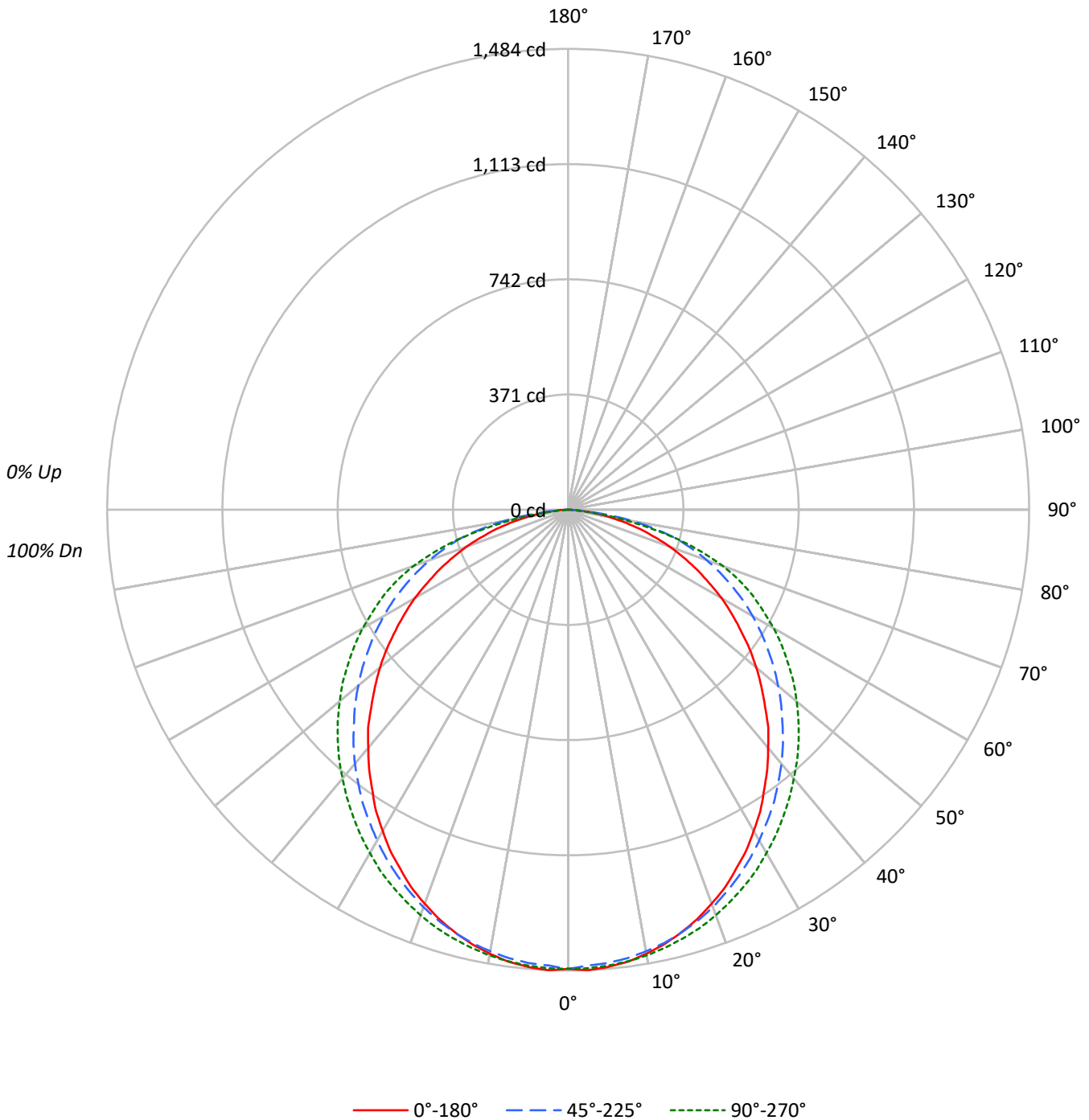
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																												
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																												
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																												
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																												
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																												
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																												
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3979	3979	3979
5°	3992	3958	3981
10°	3967	3946	3983
15°	3925	3927	3981
20°	3867	3900	3979
25°	3793	3862	3975
30°	3711	3821	3967
35°	3612	3788	3964
40°	3517	3752	3970
45°	3409	3711	3992
50°	3309	3694	4019
55°	3183	3682	4054
60°	3070	3688	4110
65°	2913	3699	4174
70°	2733	3727	4172
75°	2478	3762	3771
80°	2032	3248	2684
85°	1507	1538	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.3
10°-20°	399.7	9.3
20°-30°	602.1	14.0
30°-40°	722.5	16.8
40°-50°	753.0	17.5
50°-60°	697.1	16.2
60°-70°	563.3	13.1
70°-80°	343.4	8.0
80°-90°	70.9	1.7
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°	1141.7	26.6
0°-40°	1864.2	43.4
0°-60°	3314.4	77.2
0°-90°	4292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1478	1474	1465	1476	1474	140
15°	1409	1410	1410	1429	1429	397
25°	1278	1285	1301	1333	1339	589
35°	1100	1117	1153	1195	1207	689
45°	896	923	975	1030	1049	692
55°	678	714	785	846	864	608
65°	458	502	581	639	656	452
75°	238	291	362	368	363	250
85°	49	73	50	28	20	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1484.4	1479.6	1469.0	1479.6	1477.7
5°	1477.7	1473.8	1465.2	1475.7	1473.8
7.5°	1468.1	1464.3	1456.6	1469.0	1467.1
10°	1451.8	1449.9	1444.2	1458.5	1457.6
12.5°	1432.7	1431.7	1428.8	1445.1	1444.2
15°	1408.7	1409.7	1409.7	1428.8	1428.8
17.5°	1381.9	1383.9	1387.7	1408.7	1411.6
20°	1350.4	1354.2	1361.9	1385.8	1389.6
22.5°	1317.8	1320.7	1332.2	1360.9	1364.7
25°	1277.6	1285.3	1300.6	1333.1	1338.9
27.5°	1239.4	1246.1	1267.1	1300.6	1310.2
30°	1194.4	1204.9	1229.8	1266.1	1276.7
32.5°	1151.3	1162.8	1191.5	1233.6	1243.2
35°	1099.6	1116.9	1153.2	1195.3	1206.8
37.5°	1052.7	1069.0	1110.2	1156.1	1169.5
40°	1001.1	1021.1	1068.0	1116.9	1130.2
42.5°	953.2	972.3	1023.1	1072.8	1091.0
45°	895.8	922.6	975.2	1029.8	1048.9
47.5°	843.1	869.9	930.2	988.6	1005.8
50°	790.5	819.2	882.4	942.7	959.9
52.5°	736.0	766.6	834.5	894.8	914.9
55°	678.5	713.9	784.8	846.0	864.2
57.5°	624.0	660.3	736.0	798.2	816.3
60°	570.4	607.7	685.2	744.6	763.7
62.5°	511.1	555.1	635.5	693.8	708.2
65°	457.5	502.4	580.9	639.3	655.6
67.5°	401.0	449.8	528.3	581.9	597.2
70°	347.4	398.1	473.7	523.5	530.2
72.5°	290.0	341.7	418.2	449.8	449.8
75°	238.3	290.9	361.8	367.5	362.7
77.5°	181.8	240.2	286.2	274.7	263.2
80°	131.1	188.5	209.6	188.5	173.2
82.5°	88.0	136.9	126.3	100.5	89.0
85°	48.8	72.7	49.8	27.8	20.1
87.5°	18.2	16.3	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)