

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: P275497

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275497
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4368.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

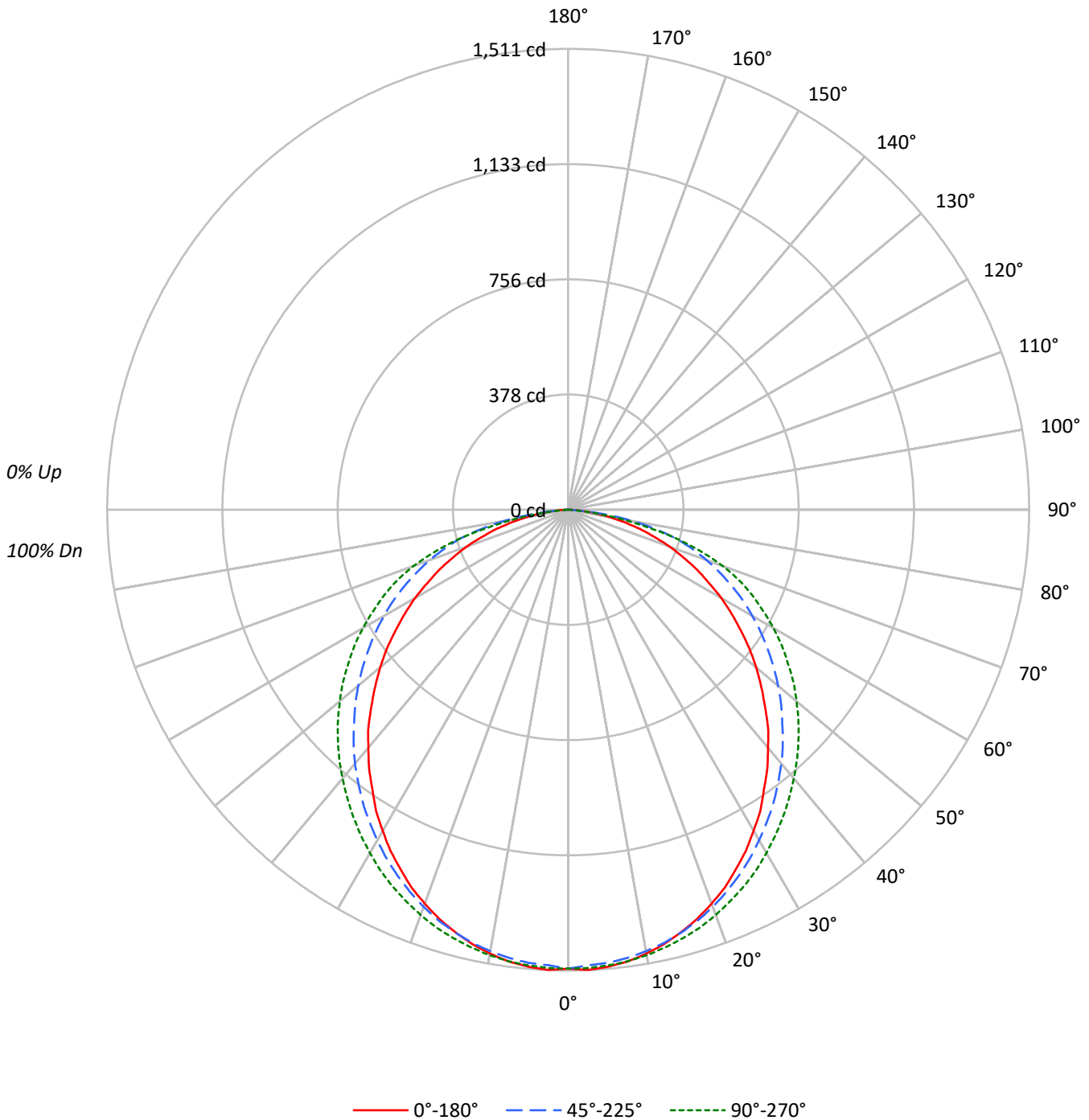
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4049	4049	4049
5°	4062	4028	4052
10°	4037	4016	4053
15°	3994	3997	4051
20°	3936	3969	4050
25°	3861	3930	4046
30°	3777	3889	4037
35°	3676	3855	4035
40°	3579	3818	4041
45°	3469	3777	4062
50°	3368	3759	4090
55°	3240	3747	4126
60°	3124	3753	4183
65°	2965	3764	4248
70°	2782	3793	4246
75°	2521	3828	3838
80°	2067	3305	2732
85°	1535	1562	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.3
10°-20°	406.8	9.3
20°-30°	612.7	14.0
30°-40°	735.3	16.8
40°-50°	766.4	17.5
50°-60°	709.5	16.2
60°-70°	573.3	13.1
70°-80°	349.5	8.0
80°-90°	72.2	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°	1161.9	26.6
0°-40°	1897.2	43.4
0°-60°	3373.1	77.2
0°-90°	4368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1504	1500	1491	1502	1500	143
15°	1434	1435	1435	1454	1454	404
25°	1300	1308	1324	1357	1363	599
35°	1119	1137	1174	1216	1228	701
45°	912	939	992	1048	1068	705
55°	690	727	799	861	880	619
65°	466	511	591	651	667	460
75°	242	296	368	374	369	255
85°	50	74	51	28	20	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.8	1504.8	1504.8	1504.8	1504.8
2.5°	1510.6	1505.8	1495.1	1505.8	1503.8
5°	1503.8	1499.9	1491.2	1501.9	1499.9
7.5°	1494.1	1490.2	1482.4	1495.1	1493.1
10°	1477.5	1475.6	1469.7	1484.3	1483.4
12.5°	1458.0	1457.1	1454.1	1470.7	1469.7
15°	1433.7	1434.7	1434.7	1454.1	1454.1
17.5°	1406.4	1408.4	1412.3	1433.7	1436.6
20°	1374.3	1378.2	1386.0	1410.3	1414.2
22.5°	1341.2	1344.1	1355.8	1385.0	1388.9
25°	1300.3	1308.0	1323.6	1356.7	1362.6
27.5°	1261.3	1268.1	1289.5	1323.6	1333.4
30°	1215.5	1226.2	1251.6	1288.6	1299.3
32.5°	1171.7	1183.4	1212.6	1255.5	1265.2
35°	1119.1	1136.6	1173.6	1216.5	1228.2
37.5°	1071.4	1087.9	1129.8	1176.6	1190.2
40°	1018.8	1039.2	1087.0	1136.6	1150.3
42.5°	970.1	989.6	1041.2	1091.8	1110.3
45°	911.6	938.9	992.5	1048.0	1067.5
47.5°	858.1	885.3	946.7	1006.1	1023.6
50°	804.5	833.7	898.0	959.4	976.9
52.5°	749.0	780.2	849.3	910.7	931.1
55°	690.5	726.6	798.7	861.0	879.5
57.5°	635.0	672.0	749.0	812.3	830.8
60°	580.5	618.5	697.4	757.8	777.2
62.5°	520.1	564.9	646.7	706.1	720.7
65°	465.6	511.3	591.2	650.6	667.2
67.5°	408.1	457.8	537.6	592.2	607.8
70°	353.6	405.2	482.1	532.8	539.6
72.5°	295.1	347.7	425.6	457.8	457.8
75°	242.5	296.1	368.2	374.0	369.1
77.5°	185.1	244.5	291.2	279.5	267.8
80°	133.4	191.9	213.3	191.9	176.3
82.5°	89.6	139.3	128.6	102.3	90.6
85°	49.7	74.0	50.6	28.2	20.5
87.5°	18.5	16.6	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)