

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: P275413

Luminaire Tested: **14CZ2-44-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275413
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4063.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

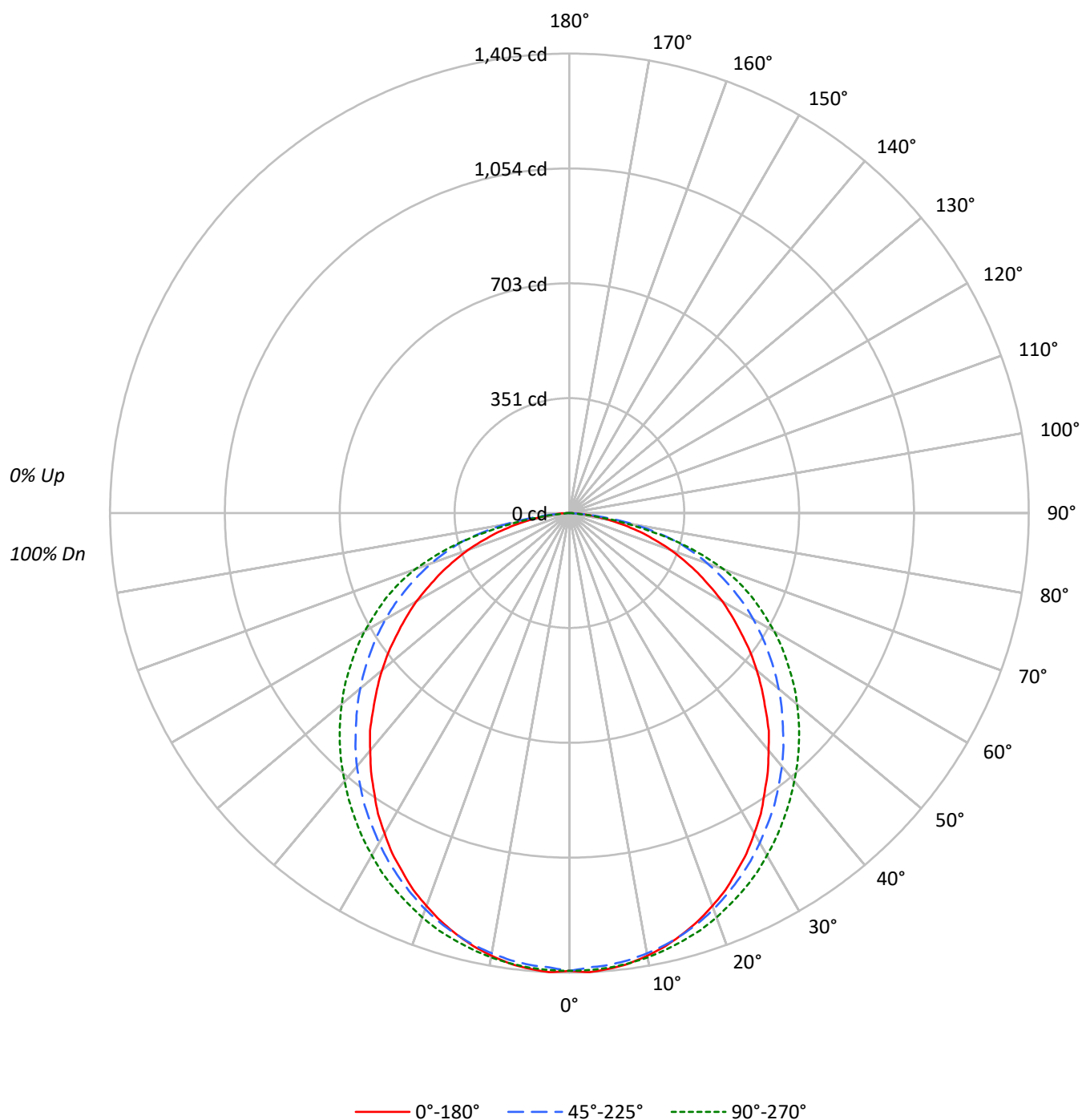
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	34
8	60	46	37	32	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		41	33	28		39	33	28		38	32	28
10	52	39	31	26	51	39	31	26		37	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3767	3767	3767
5°	3779	3747	3769
10°	3755	3736	3770
15°	3715	3718	3768
20°	3661	3692	3767
25°	3591	3656	3763
30°	3513	3617	3755
35°	3420	3586	3753
40°	3329	3552	3758
45°	3227	3513	3779
50°	3133	3497	3804
55°	3013	3485	3838
60°	2906	3491	3891
65°	2758	3501	3952
70°	2588	3529	3949
75°	2346	3561	3570
80°	1923	3075	2541
85°	1426	1454	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.3
10°-20°	378.4	9.3
20°-30°	570.0	14.0
30°-40°	684.0	16.8
40°-50°	712.9	17.5
50°-60°	660.0	16.2
60°-70°	533.2	13.1
70°-80°	325.1	8.0
80°-90°	67.1	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°	1080.8	26.6
0°-40°	1764.7	43.4
0°-60°	3137.6	77.2
0°-90°	4063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1399	1395	1387	1397	1395	133
15°	1334	1334	1334	1353	1353	376
25°	1210	1217	1231	1262	1267	557
35°	1041	1057	1092	1132	1142	652
45°	848	873	923	975	993	655
55°	642	676	743	801	818	575
65°	433	476	550	605	621	428
75°	226	275	342	348	343	237
85°	46	69	47	26	19	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.7	1399.7	1399.7	1399.7	1399.7
2.5°	1405.2	1400.6	1390.7	1400.6	1398.8
5°	1398.8	1395.2	1387.0	1397.0	1395.2
7.5°	1389.8	1386.1	1378.9	1390.7	1388.8
10°	1374.3	1372.5	1367.1	1380.7	1379.8
12.5°	1356.2	1355.3	1352.6	1368.0	1367.1
15°	1333.6	1334.5	1334.5	1352.6	1352.6
17.5°	1308.2	1310.0	1313.7	1333.6	1336.3
20°	1278.3	1281.9	1289.2	1311.8	1315.5
22.5°	1247.5	1250.2	1261.1	1288.3	1291.9
25°	1209.5	1216.7	1231.2	1262.0	1267.4
27.5°	1173.2	1179.6	1199.5	1231.2	1240.3
30°	1130.6	1140.6	1164.2	1198.6	1208.6
32.5°	1089.9	1100.7	1127.9	1167.8	1176.8
35°	1041.0	1057.3	1091.7	1131.6	1142.4
37.5°	996.6	1012.0	1050.9	1094.4	1107.1
40°	947.6	966.7	1011.1	1057.3	1069.9
42.5°	902.3	920.5	968.5	1015.6	1032.8
45°	848.0	873.4	923.2	974.8	992.9
47.5°	798.2	823.5	880.6	935.9	952.2
50°	748.3	775.5	835.3	892.4	908.7
52.5°	696.7	725.7	790.0	847.1	866.1
55°	642.3	675.9	742.9	800.9	818.1
57.5°	590.7	625.1	696.7	755.6	772.8
60°	540.0	575.3	648.7	704.8	723.0
62.5°	483.8	525.5	601.6	656.8	670.4
65°	433.1	475.6	549.9	605.2	620.6
67.5°	379.6	425.8	500.1	550.8	565.3
70°	328.9	376.9	448.5	495.6	501.9
72.5°	274.5	323.4	395.9	425.8	425.8
75°	225.6	275.4	342.5	347.9	343.4
77.5°	172.1	227.4	270.9	260.0	249.1
80°	124.1	178.5	198.4	178.5	164.0
82.5°	83.3	129.6	119.6	95.1	84.3
85°	46.2	68.9	47.1	26.3	19.0
87.5°	17.2	15.4	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)