

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: P275447

Luminaire Tested: **14CZ2-44-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275447
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-L93050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

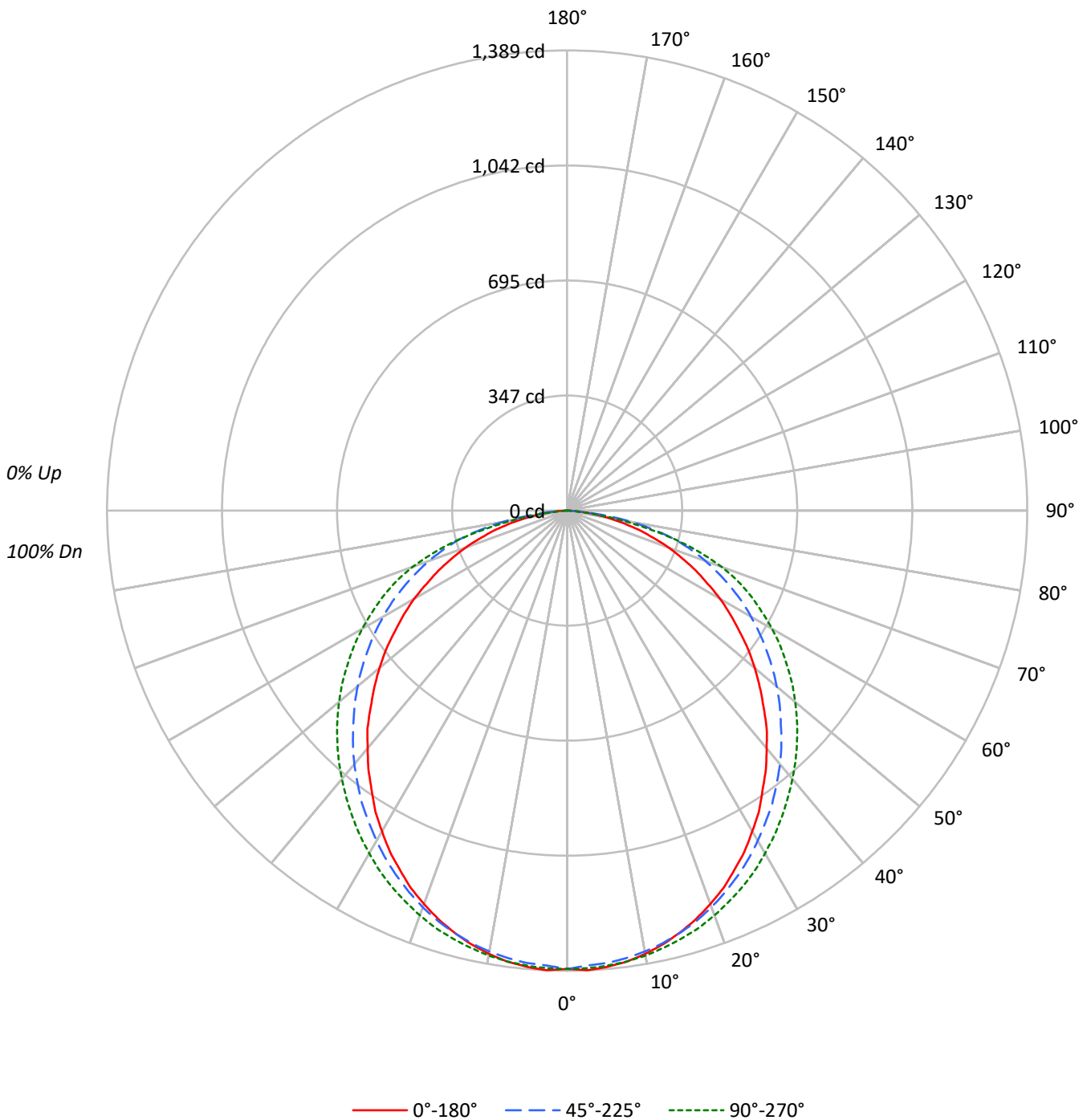
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3723	3723	3723
5°	3735	3703	3725
10°	3712	3692	3727
15°	3672	3675	3725
20°	3618	3649	3723
25°	3550	3613	3720
30°	3473	3576	3712
35°	3380	3545	3710
40°	3290	3511	3715
45°	3190	3473	3735
50°	3097	3456	3760
55°	2979	3445	3794
60°	2872	3451	3846
65°	2725	3461	3906
70°	2558	3488	3903
75°	2319	3519	3529
80°	1901	3039	2512
85°	1411	1439	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.3
10°-20°	374.0	9.3
20°-30°	563.4	14.0
30°-40°	676.0	16.8
40°-50°	704.6	17.5
50°-60°	652.3	16.2
60°-70°	527.1	13.1
70°-80°	321.4	8.0
80°-90°	66.4	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°	1068.3	26.6
0°-40°	1744.3	43.4
0°-60°	3101.3	77.2
0°-90°	4016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1383	1379	1371	1381	1379	131
15°	1318	1319	1319	1337	1337	372
25°	1196	1203	1217	1247	1253	551
35°	1029	1045	1079	1118	1129	645
45°	838	863	912	964	982	648
55°	635	668	734	792	809	569
65°	428	470	544	598	613	423
75°	223	272	338	344	339	234
85°	46	68	47	26	19	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.5	1383.5	1383.5	1383.5	1383.5
2.5°	1388.9	1384.4	1374.6	1384.4	1382.6
5°	1382.6	1379.0	1371.0	1380.8	1379.0
7.5°	1373.7	1370.1	1362.9	1374.6	1372.8
10°	1358.5	1356.7	1351.3	1364.7	1363.8
12.5°	1340.5	1339.6	1337.0	1352.2	1351.3
15°	1318.2	1319.1	1319.1	1337.0	1337.0
17.5°	1293.1	1294.9	1298.5	1318.2	1320.8
20°	1263.5	1267.1	1274.3	1296.7	1300.2
22.5°	1233.1	1235.8	1246.5	1273.4	1277.0
25°	1195.5	1202.6	1217.0	1247.4	1252.8
27.5°	1159.7	1165.9	1185.6	1217.0	1225.9
30°	1117.6	1127.4	1150.7	1184.7	1194.6
32.5°	1077.3	1088.0	1114.9	1154.3	1163.2
35°	1028.9	1045.0	1079.1	1118.5	1129.2
37.5°	985.0	1000.3	1038.8	1081.7	1094.3
40°	936.7	955.5	999.4	1045.0	1057.6
42.5°	891.9	909.8	957.3	1003.8	1020.9
45°	838.2	863.2	912.5	963.5	981.5
47.5°	788.9	814.0	870.4	925.0	941.2
50°	739.7	766.5	825.6	882.1	898.2
52.5°	688.6	717.3	780.9	837.3	856.1
55°	634.9	668.0	734.3	791.6	808.6
57.5°	583.9	617.9	688.6	746.8	763.8
60°	533.7	568.6	641.2	696.7	714.6
62.5°	478.2	519.4	594.6	649.2	662.7
65°	428.0	470.1	543.6	598.2	613.4
67.5°	375.2	420.9	494.3	544.5	558.8
70°	325.1	372.5	443.3	489.8	496.1
72.5°	271.3	319.7	391.3	420.9	420.9
75°	223.0	272.2	338.5	343.9	339.4
77.5°	170.1	224.8	267.8	257.0	246.3
80°	122.7	176.4	196.1	176.4	162.1
82.5°	82.4	128.1	118.2	94.0	83.3
85°	45.7	68.1	46.6	26.0	18.8
87.5°	17.0	15.2	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)