

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: P275410

Luminaire Tested: **14CZ2-39-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275410
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: 14CZ2-39-UNV-L83050-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: 4039.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

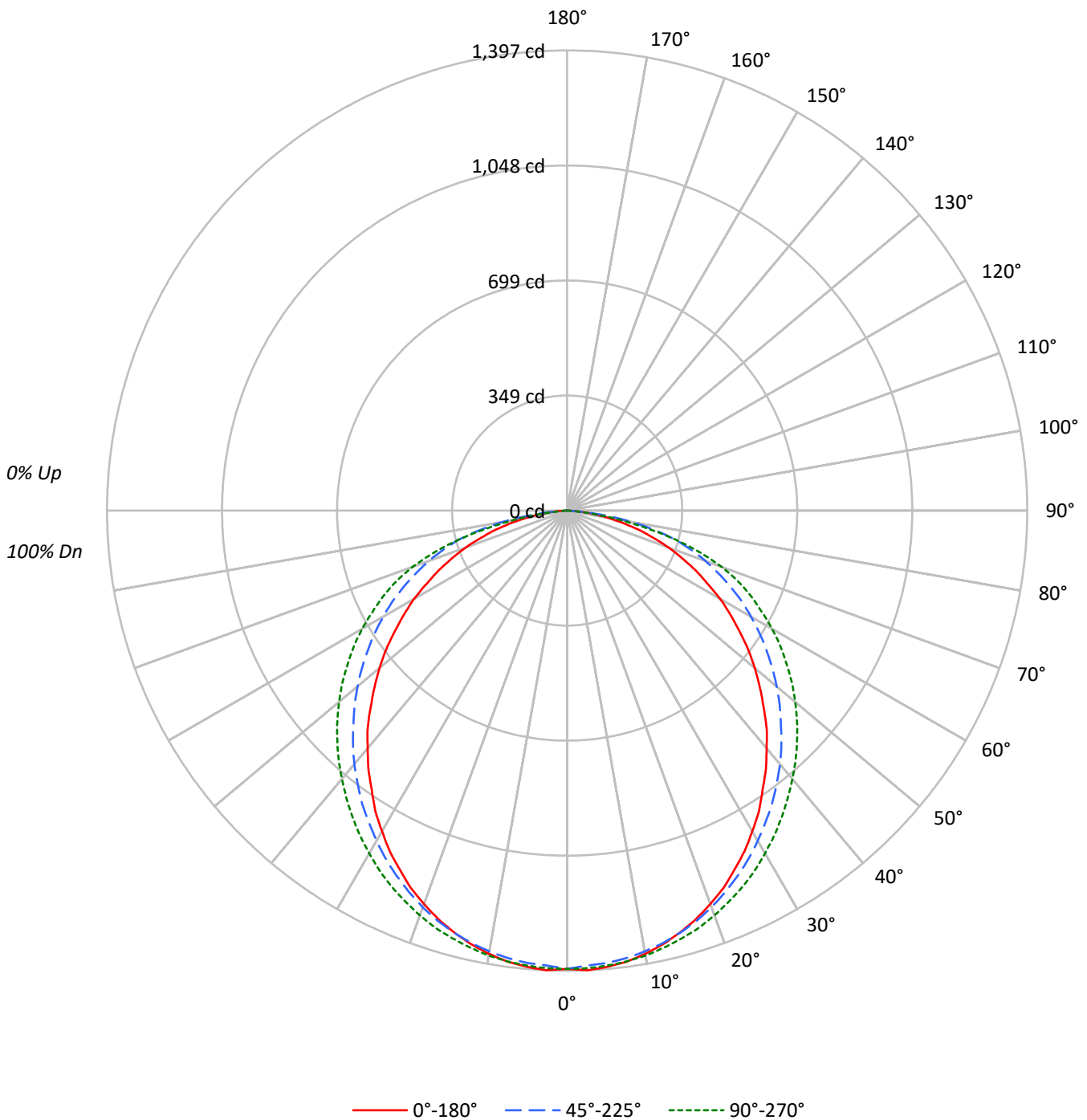
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3744	3744	3744
5°	3756	3724	3746
10°	3733	3713	3748
15°	3693	3696	3746
20°	3639	3670	3745
25°	3570	3634	3741
30°	3493	3596	3733
35°	3399	3565	3731
40°	3309	3531	3736
45°	3208	3492	3757
50°	3114	3476	3782
55°	2996	3465	3816
60°	2889	3470	3868
65°	2741	3481	3928
70°	2572	3508	3925
75°	2332	3539	3549
80°	1912	3056	2526
85°	1417	1445	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.3
10°-20°	376.1	9.3
20°-30°	566.6	14.0
30°-40°	679.9	16.8
40°-50°	708.7	17.5
50°-60°	656.1	16.2
60°-70°	530.1	13.1
70°-80°	323.2	8.0
80°-90°	66.7	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°	1074.4	26.6
0°-40°	1754.3	43.4
0°-60°	3119.0	77.2
0°-90°	4039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1390	1387	1379	1389	1387	132
15°	1326	1327	1327	1345	1345	374
25°	1202	1210	1224	1255	1260	554
35°	1035	1051	1085	1125	1136	648
45°	843	868	918	969	987	652
55°	638	672	738	796	813	572
65°	430	473	547	602	617	426
75°	224	274	340	346	341	236
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°	1391.4	1391.4	1391.4	1391.4	1391.4
2.5°	1396.9	1392.3	1382.4	1392.3	1390.5
5°	1390.5	1386.9	1378.8	1388.7	1386.9
7.5°	1381.5	1377.9	1370.7	1382.4	1380.6
10°	1366.2	1364.4	1359.0	1372.5	1371.6
12.5°	1348.2	1347.3	1344.6	1359.9	1359.0
15°	1325.7	1326.6	1326.6	1344.6	1344.6
17.5°	1300.5	1302.3	1305.9	1325.7	1328.4
20°	1270.8	1274.4	1281.6	1304.1	1307.7
22.5°	1240.1	1242.8	1253.7	1280.7	1284.3
25°	1202.3	1209.5	1223.9	1254.6	1260.0
27.5°	1166.3	1172.6	1192.4	1223.9	1232.9
30°	1124.0	1133.9	1157.3	1191.5	1201.4
32.5°	1083.4	1094.2	1121.3	1160.9	1169.9
35°	1034.8	1051.0	1085.2	1124.9	1135.7
37.5°	990.7	1006.0	1044.7	1087.9	1100.6
40°	942.0	961.0	1005.1	1051.0	1063.6
42.5°	897.0	915.0	962.8	1009.6	1026.7
45°	843.0	868.2	917.7	969.1	987.1
47.5°	793.4	818.7	875.4	930.3	946.5
50°	743.9	770.9	830.4	887.1	903.3
52.5°	692.6	721.4	785.3	842.1	861.0
55°	638.5	671.9	738.5	796.1	813.3
57.5°	587.2	621.4	692.6	751.1	768.2
60°	536.8	571.9	644.8	700.7	718.7
62.5°	480.9	522.4	598.0	652.9	666.5
65°	430.5	472.8	546.7	601.6	616.9
67.5°	377.4	423.3	497.1	547.6	562.0
70°	326.9	374.7	445.8	492.6	498.9
72.5°	272.9	321.5	393.6	423.3	423.3
75°	224.3	273.8	340.4	345.8	341.3
77.5°	171.1	226.1	269.3	258.5	247.7
80°	123.4	177.4	197.2	177.4	163.0
82.5°	82.9	128.8	118.9	94.6	83.8
85°	45.9	68.4	46.8	26.1	18.9
87.5°	17.1	15.3	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)