

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: P275654

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3796.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

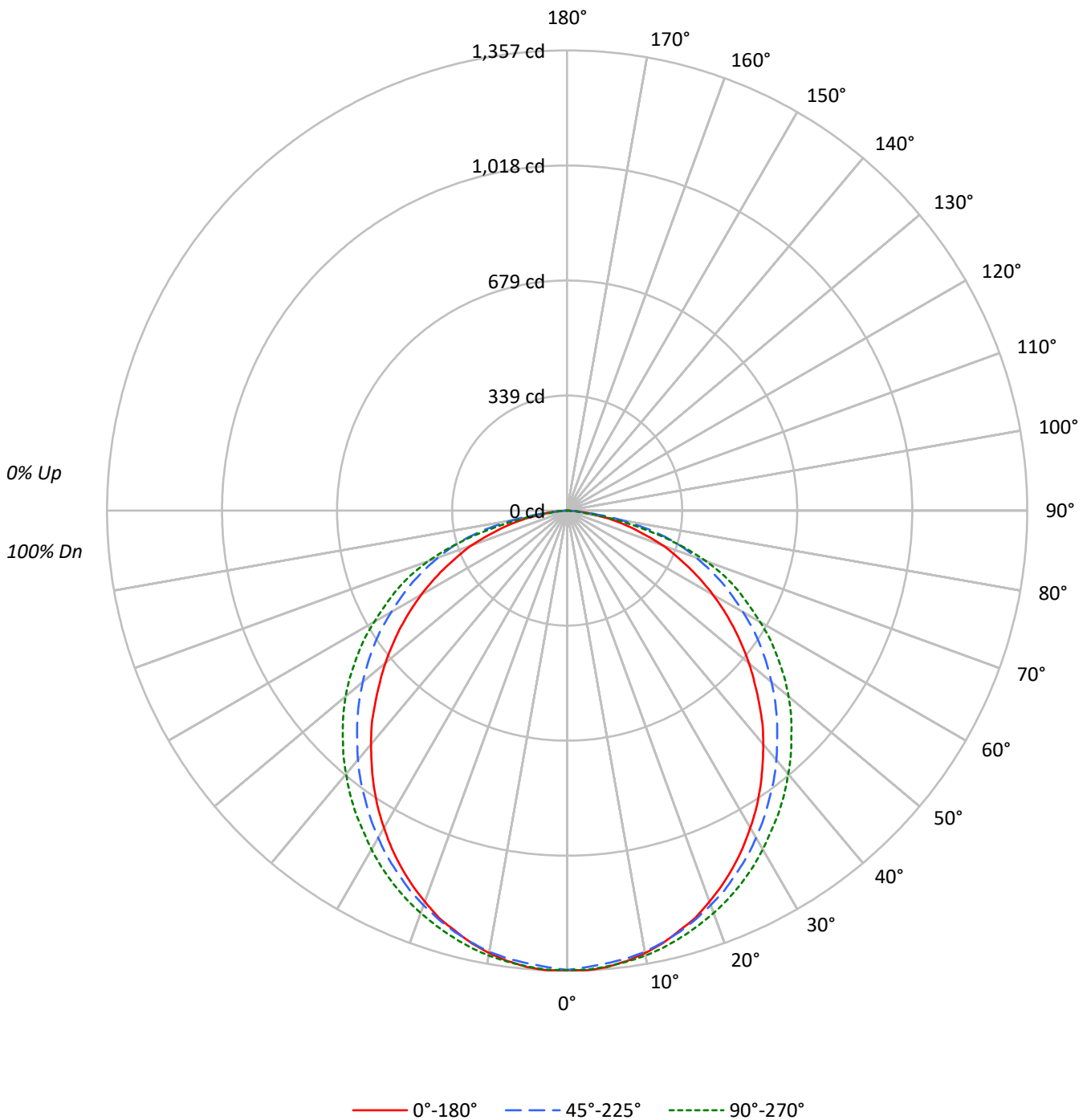
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3647	3647	3647
5°	3650	3620	3645
10°	3621	3610	3641
15°	3571	3581	3628
20°	3514	3546	3617
25°	3442	3504	3605
30°	3357	3462	3585
35°	3264	3413	3574
40°	3160	3372	3563
45°	3044	3331	3560
50°	2931	3293	3569
55°	2808	3267	3559
60°	2674	3221	3535
65°	2516	3212	3535
70°	2369	3184	3435
75°	2054	3112	2935
80°	1663	2509	1954
85°	1105	871	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.4
10°-20°	364.1	9.6
20°-30°	546.2	14.4
30°-40°	651.6	17.2
40°-50°	673.6	17.7
50°-60°	615.0	16.2
60°-70°	484.0	12.7
70°-80°	281.7	7.4
80°-90°	51.9	1.4
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°	1038.3	27.4
0°-40°	1689.8	44.5
0°-60°	2978.4	78.5
0°-90°	3796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1351	1348	1340	1351	1350	128
15°	1282	1284	1286	1302	1302	362
25°	1159	1165	1180	1208	1214	534
35°	994	1007	1039	1078	1088	621
45°	800	826	875	924	935	618
55°	598	630	696	747	758	535
65°	395	437	504	544	555	392
75°	198	245	299	294	282	210
85°	36	51	28	23	19	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.1	1355.1	1355.1	1355.1	1355.1
2.5°	1357.0	1353.2	1347.6	1357.0	1355.1
5°	1351.3	1347.6	1340.1	1351.3	1349.5
7.5°	1340.1	1336.3	1332.5	1343.8	1341.9
10°	1325.0	1323.1	1321.2	1334.4	1332.5
12.5°	1306.2	1306.2	1304.3	1319.3	1319.3
15°	1281.7	1283.6	1285.5	1302.4	1302.4
17.5°	1259.1	1257.2	1262.9	1281.7	1283.6
20°	1227.1	1230.9	1238.4	1261.0	1262.9
22.5°	1195.1	1198.9	1212.1	1234.7	1240.3
25°	1159.4	1165.0	1180.1	1208.3	1214.0
27.5°	1121.7	1129.3	1150.0	1180.1	1185.7
30°	1080.3	1091.6	1114.2	1148.1	1153.7
32.5°	1038.9	1050.2	1078.4	1112.3	1119.8
35°	993.7	1006.9	1038.9	1078.4	1087.9
37.5°	946.7	963.6	1001.3	1040.8	1052.1
40°	899.6	918.5	959.9	1001.3	1014.4
42.5°	852.6	871.4	916.6	963.6	976.8
45°	799.9	826.2	875.2	924.1	935.4
47.5°	749.1	777.3	831.9	880.8	895.9
50°	700.1	728.4	786.7	837.5	852.6
52.5°	649.3	679.4	741.5	794.2	807.4
55°	598.5	630.5	696.4	747.2	758.5
57.5°	547.7	581.6	649.3	698.3	711.4
60°	496.9	532.6	598.5	647.4	656.9
62.5°	446.1	483.7	551.5	594.7	604.2
65°	395.2	436.6	504.4	543.9	555.2
67.5°	346.3	387.7	453.6	491.2	500.6
70°	301.1	338.8	404.7	432.9	436.6
72.5°	244.7	291.7	355.7	370.8	361.4
75°	197.6	244.7	299.3	293.6	282.3
77.5°	150.6	197.6	233.4	214.6	199.5
80°	107.3	154.3	161.9	133.6	126.1
82.5°	69.6	107.3	90.3	69.6	56.5
85°	35.8	50.8	28.2	22.6	18.8
87.5°	11.3	7.5	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)