

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: P275544

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275544
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

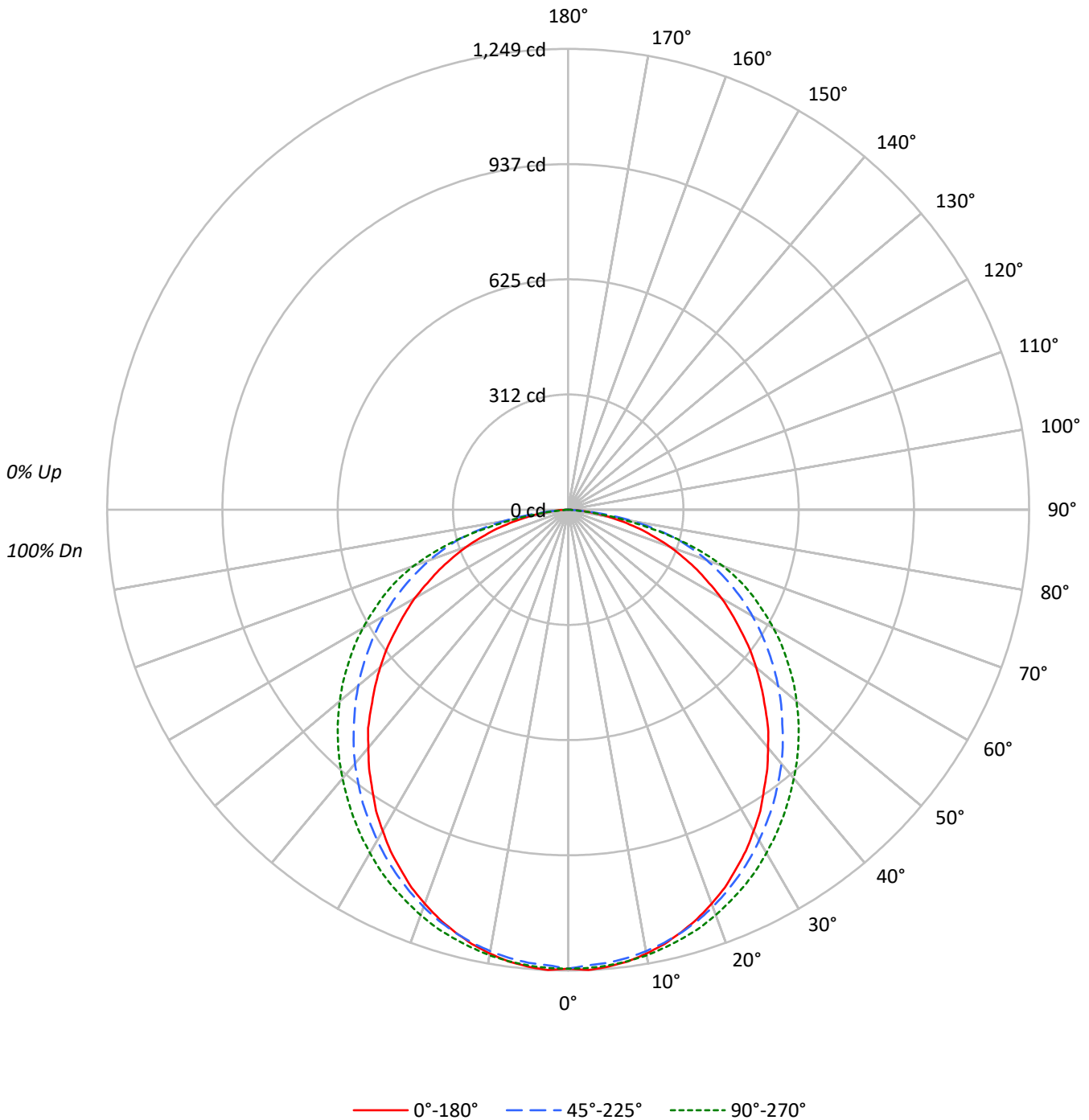
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3348	3348	3348
5°	3358	3330	3350
10°	3338	3320	3351
15°	3302	3304	3349
20°	3253	3281	3348
25°	3192	3249	3344
30°	3123	3215	3338
35°	3039	3187	3335
40°	2958	3157	3340
45°	2868	3123	3358
50°	2784	3108	3381
55°	2678	3097	3411
60°	2583	3103	3458
65°	2451	3112	3512
70°	2300	3136	3510
75°	2085	3165	3173
80°	1709	2732	2258
85°	1269	1294	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.3
10°-20°	336.3	9.3
20°-30°	506.6	14.0
30°-40°	607.9	16.8
40°-50°	633.6	17.5
50°-60°	586.5	16.2
60°-70°	473.9	13.1
70°-80°	288.9	8.0
80°-90°	59.6	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°	960.5	26.6
0°-40°	1568.4	43.4
0°-60°	2788.5	77.2
0°-90°	3611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1243	1240	1233	1242	1240	118
15°	1185	1186	1186	1202	1202	334
25°	1075	1081	1094	1122	1126	495
35°	925	940	970	1006	1015	580
45°	754	776	820	866	882	583
55°	571	601	660	712	727	511
65°	385	423	489	538	552	381
75°	200	245	304	309	305	211
85°	41	61	42	23	17	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.0	1244.0	1244.0	1244.0	1244.0
2.5°	1248.8	1244.8	1235.9	1244.8	1243.2
5°	1243.2	1240.0	1232.7	1241.6	1240.0
7.5°	1235.1	1231.9	1225.5	1235.9	1234.3
10°	1221.5	1219.8	1215.0	1227.1	1226.3
12.5°	1205.4	1204.5	1202.1	1215.8	1215.0
15°	1185.2	1186.0	1186.0	1202.1	1202.1
17.5°	1162.7	1164.3	1167.5	1185.2	1187.6
20°	1136.1	1139.3	1145.8	1165.9	1169.1
22.5°	1108.7	1111.1	1120.8	1145.0	1148.2
25°	1074.9	1081.4	1094.2	1121.6	1126.4
27.5°	1042.7	1048.3	1066.1	1094.2	1102.3
30°	1004.9	1013.7	1034.7	1065.3	1074.1
32.5°	968.6	978.3	1002.4	1037.9	1045.9
35°	925.2	939.6	970.2	1005.7	1015.3
37.5°	885.7	899.4	934.0	972.7	983.9
40°	842.2	859.1	898.6	939.6	950.9
42.5°	802.0	818.1	860.7	902.6	917.9
45°	753.6	776.2	820.5	866.4	882.5
47.5°	709.4	731.9	782.6	831.7	846.2
50°	665.1	689.2	742.4	793.1	807.6
52.5°	619.2	644.9	702.1	752.8	769.8
55°	570.9	600.7	660.2	711.8	727.1
57.5°	525.0	555.6	619.2	671.5	686.8
60°	479.9	511.3	576.5	626.4	642.5
62.5°	430.0	467.0	534.6	583.8	595.8
65°	384.9	422.7	488.7	537.9	551.5
67.5°	337.4	378.4	444.5	489.5	502.4
70°	292.3	335.0	398.6	440.4	446.1
72.5°	244.0	287.4	351.9	378.4	378.4
75°	200.5	244.8	304.4	309.2	305.2
77.5°	153.0	202.1	240.7	231.1	221.4
80°	110.3	158.6	176.3	158.6	145.7
82.5°	74.1	115.1	106.3	84.5	74.9
85°	41.1	61.2	41.9	23.4	16.9
87.5°	15.3	13.7	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)