

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: P275711

Luminaire Tested: **14CZ2-39-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275711
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3593.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

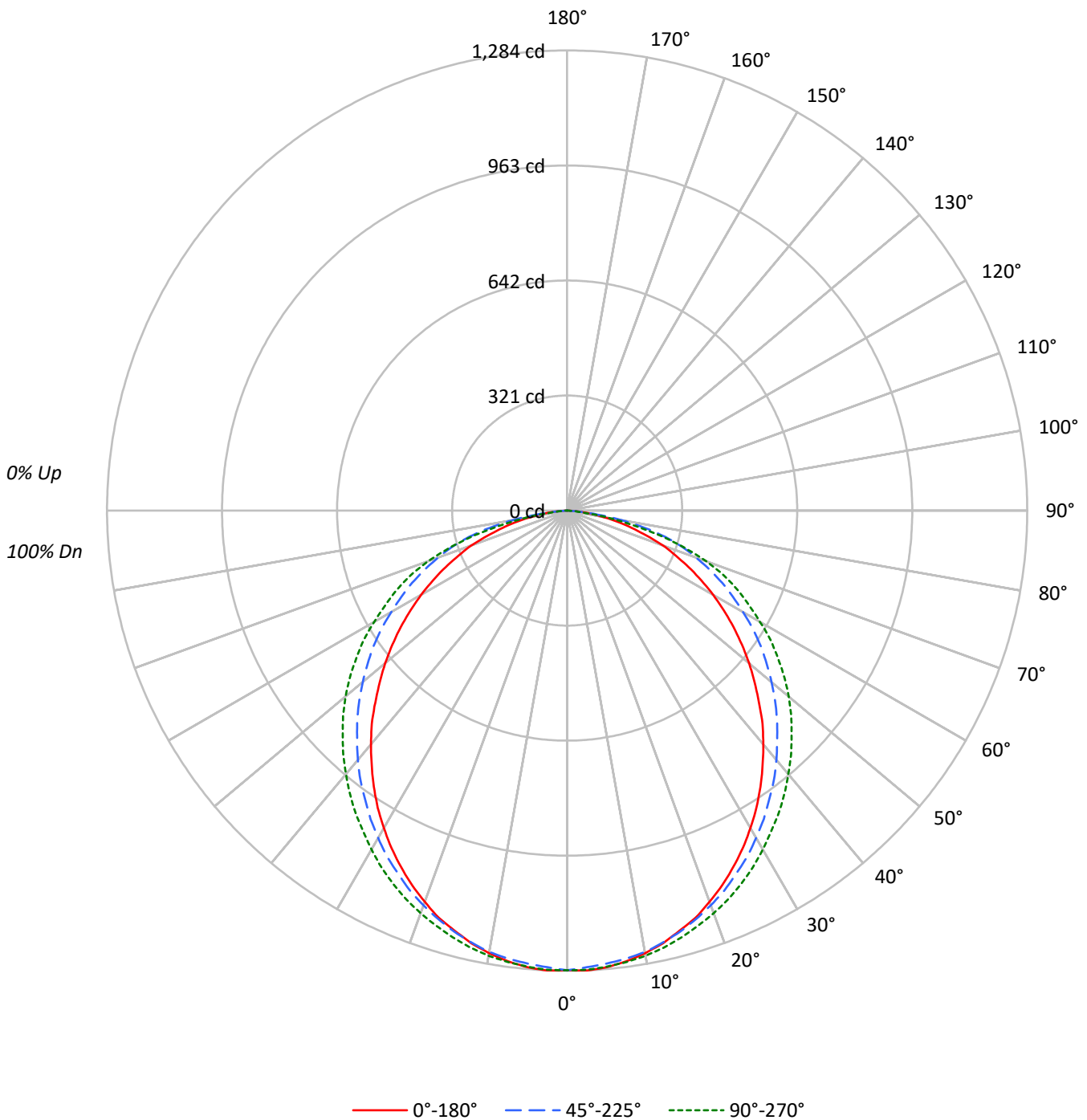
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3451	3451	3451
5°	3455	3426	3450
10°	3427	3417	3446
15°	3380	3390	3434
20°	3326	3357	3423
25°	3258	3317	3412
30°	3177	3277	3393
35°	3090	3231	3383
40°	2991	3191	3373
45°	2881	3153	3369
50°	2774	3117	3378
55°	2658	3092	3368
60°	2531	3049	3346
65°	2382	3040	3346
70°	2242	3013	3252
75°	1945	2944	2778
80°	1573	2374	1850
85°	1044	824	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.4
10°-20°	344.7	9.6
20°-30°	517.0	14.4
30°-40°	616.7	17.2
40°-50°	637.6	17.7
50°-60°	582.1	16.2
60°-70°	458.1	12.7
70°-80°	266.7	7.4
80°-90°	49.1	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°	982.8	27.4
0°-40°	1599.5	44.5
0°-60°	2819.1	78.5
0°-90°	3593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1279	1276	1268	1279	1277	121
15°	1213	1215	1217	1233	1233	342
25°	1097	1103	1117	1144	1149	505
35°	941	953	983	1021	1030	588
45°	757	782	828	875	885	585
55°	566	597	659	707	718	507
65°	374	413	477	515	526	371
75°	187	232	283	278	267	199
85°	34	48	27	21	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.6	1282.6	1282.6	1282.6	1282.6
2.5°	1284.4	1280.9	1275.5	1284.4	1282.6
5°	1279.1	1275.5	1268.4	1279.1	1277.3
7.5°	1268.4	1264.8	1261.3	1272.0	1270.2
10°	1254.1	1252.4	1250.6	1263.0	1261.3
12.5°	1236.3	1236.3	1234.5	1248.8	1248.8
15°	1213.2	1214.9	1216.7	1232.8	1232.8
17.5°	1191.8	1190.0	1195.4	1213.2	1214.9
20°	1161.5	1165.1	1172.2	1193.6	1195.4
22.5°	1131.2	1134.8	1147.3	1168.6	1174.0
25°	1097.4	1102.7	1117.0	1143.7	1149.0
27.5°	1061.7	1068.9	1088.5	1117.0	1122.3
30°	1022.6	1033.2	1054.6	1086.7	1092.0
32.5°	983.4	994.0	1020.8	1052.8	1060.0
35°	940.6	953.1	983.4	1020.8	1029.7
37.5°	896.1	912.1	947.7	985.1	995.8
40°	851.5	869.3	908.5	947.7	960.2
42.5°	807.0	824.8	867.6	912.1	924.6
45°	757.1	782.1	828.4	874.7	885.4
47.5°	709.0	735.7	787.4	833.7	848.0
50°	662.7	689.4	744.6	792.7	807.0
52.5°	614.6	643.1	701.9	751.8	764.2
55°	566.5	596.8	659.1	707.2	717.9
57.5°	518.4	550.5	614.6	660.9	673.4
60°	470.3	504.1	566.5	612.8	621.7
62.5°	422.2	457.8	522.0	562.9	571.8
65°	374.1	413.3	477.4	514.8	525.5
67.5°	327.8	367.0	429.3	465.0	473.9
70°	285.0	320.7	383.0	409.7	413.3
72.5°	231.6	276.1	336.7	350.9	342.0
75°	187.1	231.6	283.2	277.9	267.2
77.5°	142.5	187.1	220.9	203.1	188.8
80°	101.5	146.1	153.2	126.5	119.4
82.5°	65.9	101.5	85.5	65.9	53.4
85°	33.8	48.1	26.7	21.4	17.8
87.5°	10.7	7.1	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)