

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: P275546

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275546
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3650.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

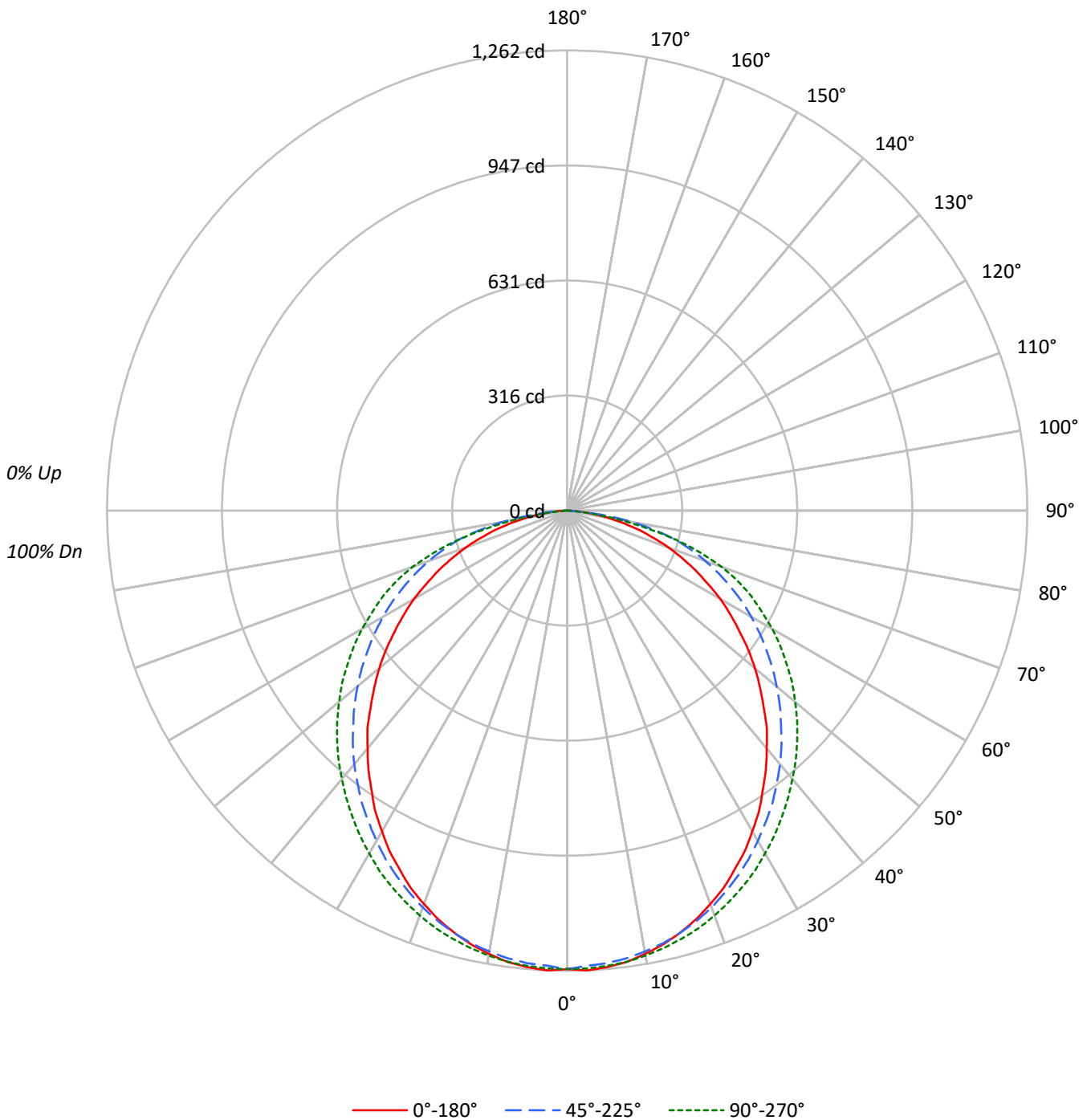
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275546

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P275546

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-6500K

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°	3384	3384	3384
5°	3394	3366	3386
10°	3374	3356	3387
15°	3338	3340	3385
20°	3289	3316	3384
25°	3226	3284	3381
30°	3156	3250	3374
35°	3072	3222	3371
40°	2990	3191	3377
45°	2899	3156	3395
50°	2815	3141	3417
55°	2707	3131	3448
60°	2611	3136	3496
65°	2477	3145	3550
70°	2324	3170	3548
75°	2108	3198	3208
80°	1728	2762	2283
85°	1281	1306	528



TEST NUMBER: P275546

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	3.3
10°-20°	339.9	9.3
20°-30°	512.0	14.0
30°-40°	614.4	16.8
40°-50°	640.4	17.5
50°-60°	592.9	16.2
60°-70°	479.0	13.1
70°-80°	292.1	8.0
80°-90°	60.3	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°	970.9	26.6
0°-40°	1585.3	43.4
0°-60°	2818.6	77.2
0°-90°	3650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1257	1253	1246	1255	1253	119
15°	1198	1199	1199	1215	1215	338
25°	1086	1093	1106	1134	1139	501
35°	935	950	981	1016	1026	586
45°	762	785	829	876	892	589
55°	577	607	667	720	735	517
65°	389	427	494	544	558	385
75°	203	247	308	312	308	213
85°	42	62	42	24	17	51
90°	0	0	0	0	0	



TEST NUMBER: P275546

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.4	1257.4	1257.4	1257.4	1257.4
2.5°	1262.3	1258.3	1249.3	1258.3	1256.6
5°	1256.6	1253.4	1246.0	1255.0	1253.4
7.5°	1248.5	1245.2	1238.7	1249.3	1247.7
10°	1234.6	1233.0	1228.1	1240.3	1239.5
12.5°	1218.4	1217.6	1215.1	1229.0	1228.1
15°	1198.0	1198.8	1198.8	1215.1	1215.1
17.5°	1175.2	1176.9	1180.1	1198.0	1200.5
20°	1148.4	1151.6	1158.1	1178.5	1181.7
22.5°	1120.7	1123.1	1132.9	1157.3	1160.6
25°	1086.5	1093.0	1106.1	1133.7	1138.6
27.5°	1054.0	1059.7	1077.6	1106.1	1114.2
30°	1015.7	1024.7	1045.8	1076.8	1085.7
32.5°	979.1	988.9	1013.3	1049.1	1057.2
35°	935.1	949.8	980.7	1016.5	1026.3
37.5°	895.3	909.1	944.1	983.2	994.6
40°	851.3	868.4	908.3	949.8	961.2
42.5°	810.6	826.9	870.0	912.4	927.8
45°	761.8	784.6	829.3	875.7	892.0
47.5°	717.0	739.8	791.1	840.7	855.4
50°	672.3	696.7	750.4	801.7	816.3
52.5°	625.9	651.9	709.7	761.0	778.1
55°	577.0	607.2	667.4	719.5	734.9
57.5°	530.6	561.6	625.9	678.8	694.2
60°	485.1	516.8	582.7	633.2	649.5
62.5°	434.6	472.0	540.4	590.1	602.3
65°	389.0	427.3	494.0	543.7	557.5
67.5°	341.0	382.5	449.3	494.8	507.9
70°	295.4	338.6	402.9	445.2	450.9
72.5°	246.6	290.6	355.7	382.5	382.5
75°	202.7	247.4	307.6	312.5	308.5
77.5°	154.6	204.3	243.3	233.6	223.8
80°	111.5	160.3	178.2	160.3	147.3
82.5°	74.9	116.4	107.4	85.5	75.7
85°	41.5	61.9	42.3	23.6	17.1
87.5°	15.5	13.8	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)