

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: P275609

Luminaire Tested: **14CZ2-39-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275609
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-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

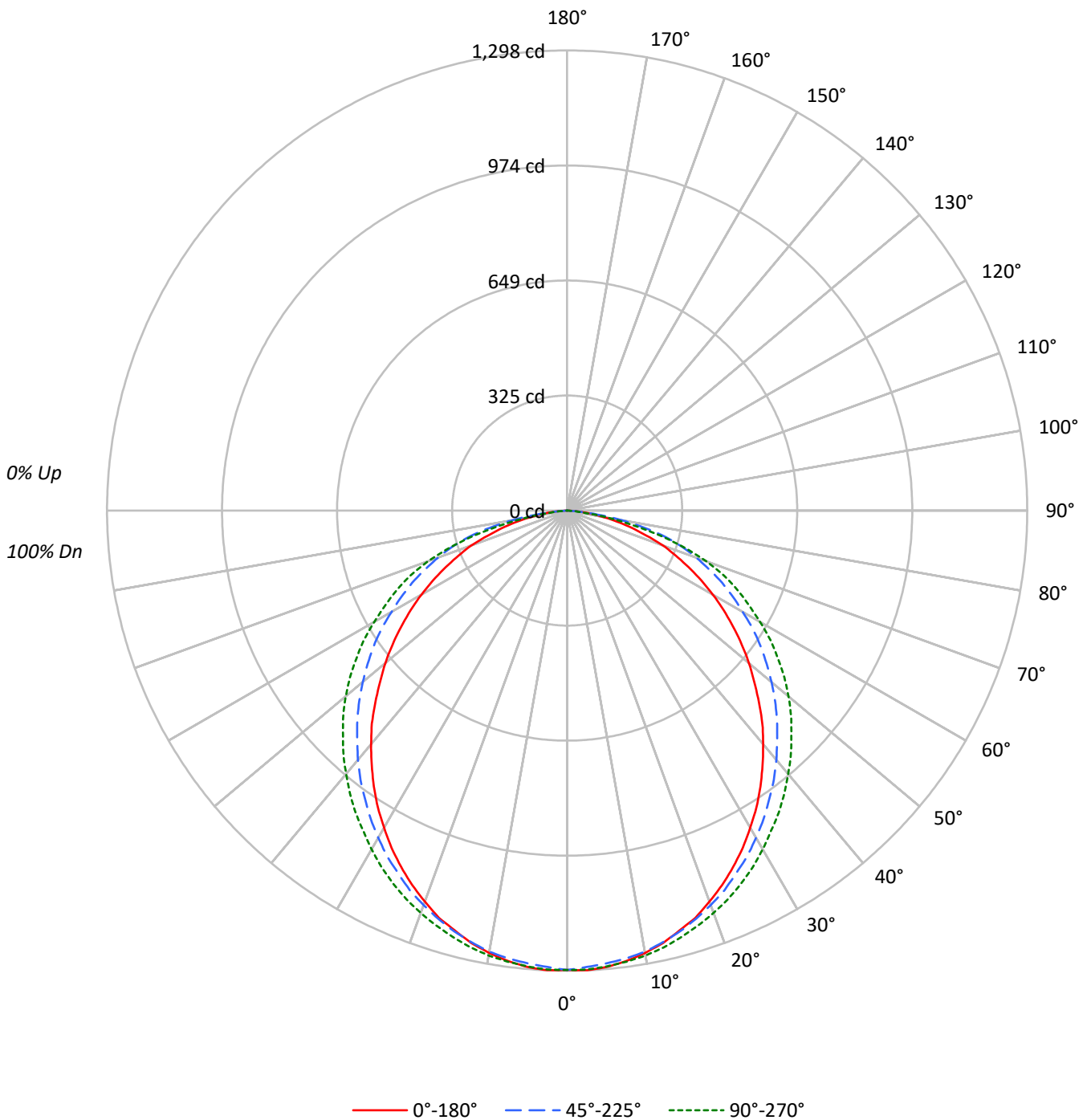
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3487	3487	3487
5°	3491	3462	3486
10°	3462	3453	3482
15°	3415	3425	3470
20°	3361	3391	3458
25°	3292	3351	3447
30°	3210	3311	3428
35°	3122	3264	3417
40°	3022	3224	3408
45°	2911	3185	3404
50°	2803	3149	3413
55°	2685	3124	3403
60°	2557	3080	3380
65°	2407	3071	3380
70°	2266	3045	3286
75°	1965	2976	2807
80°	1590	2399	1869
85°	1056	834	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.4
10°-20°	348.2	9.6
20°-30°	522.3	14.4
30°-40°	623.1	17.2
40°-50°	644.1	17.7
50°-60°	588.1	16.2
60°-70°	462.8	12.7
70°-80°	269.4	7.4
80°-90°	49.6	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°	992.9	27.4
0°-40°	1616.0	44.5
0°-60°	2848.2	78.5
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1292	1289	1282	1292	1290	123
15°	1226	1228	1229	1246	1246	346
25°	1109	1114	1128	1156	1161	510
35°	950	963	994	1031	1040	594
45°	765	790	837	884	894	591
55°	572	603	666	714	725	512
65°	378	418	482	520	531	375
75°	189	234	286	281	270	201
85°	34	49	27	22	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1297.6	1294.0	1288.7	1297.6	1295.8
5°	1292.3	1288.7	1281.5	1292.3	1290.5
7.5°	1281.5	1277.9	1274.3	1285.1	1283.3
10°	1267.1	1265.3	1263.5	1276.1	1274.3
12.5°	1249.1	1249.1	1247.3	1261.7	1261.7
15°	1225.7	1227.5	1229.3	1245.5	1245.5
17.5°	1204.1	1202.3	1207.7	1225.7	1227.5
20°	1173.5	1177.1	1184.3	1205.9	1207.7
22.5°	1142.9	1146.5	1159.1	1180.7	1186.1
25°	1108.7	1114.1	1128.5	1155.5	1160.9
27.5°	1072.7	1079.9	1099.7	1128.5	1133.9
30°	1033.1	1043.9	1065.5	1097.9	1103.3
32.5°	993.5	1004.3	1031.3	1063.7	1070.9
35°	950.3	962.9	993.5	1031.3	1040.3
37.5°	905.3	921.5	957.5	995.3	1006.1
40°	860.3	878.3	917.9	957.5	970.1
42.5°	815.3	833.3	876.5	921.5	934.1
45°	764.9	790.1	836.9	883.7	894.5
47.5°	716.3	743.3	795.5	842.3	856.7
50°	669.5	696.5	752.3	800.9	815.3
52.5°	620.9	649.7	709.1	759.5	772.1
55°	572.3	602.9	665.9	714.5	725.3
57.5°	523.7	556.1	620.9	667.7	680.3
60°	475.1	509.3	572.3	619.1	628.1
62.5°	426.6	462.5	527.3	568.7	577.7
65°	378.0	417.6	482.3	520.1	530.9
67.5°	331.2	370.8	433.7	469.7	478.7
70°	288.0	324.0	387.0	414.0	417.6
72.5°	234.0	279.0	340.2	354.6	345.6
75°	189.0	234.0	286.2	280.8	270.0
77.5°	144.0	189.0	223.2	205.2	190.8
80°	102.6	147.6	154.8	127.8	120.6
82.5°	66.6	102.6	86.4	66.6	54.0
85°	34.2	48.6	27.0	21.6	18.0
87.5°	10.8	7.2	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)