

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: P258793

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3522.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

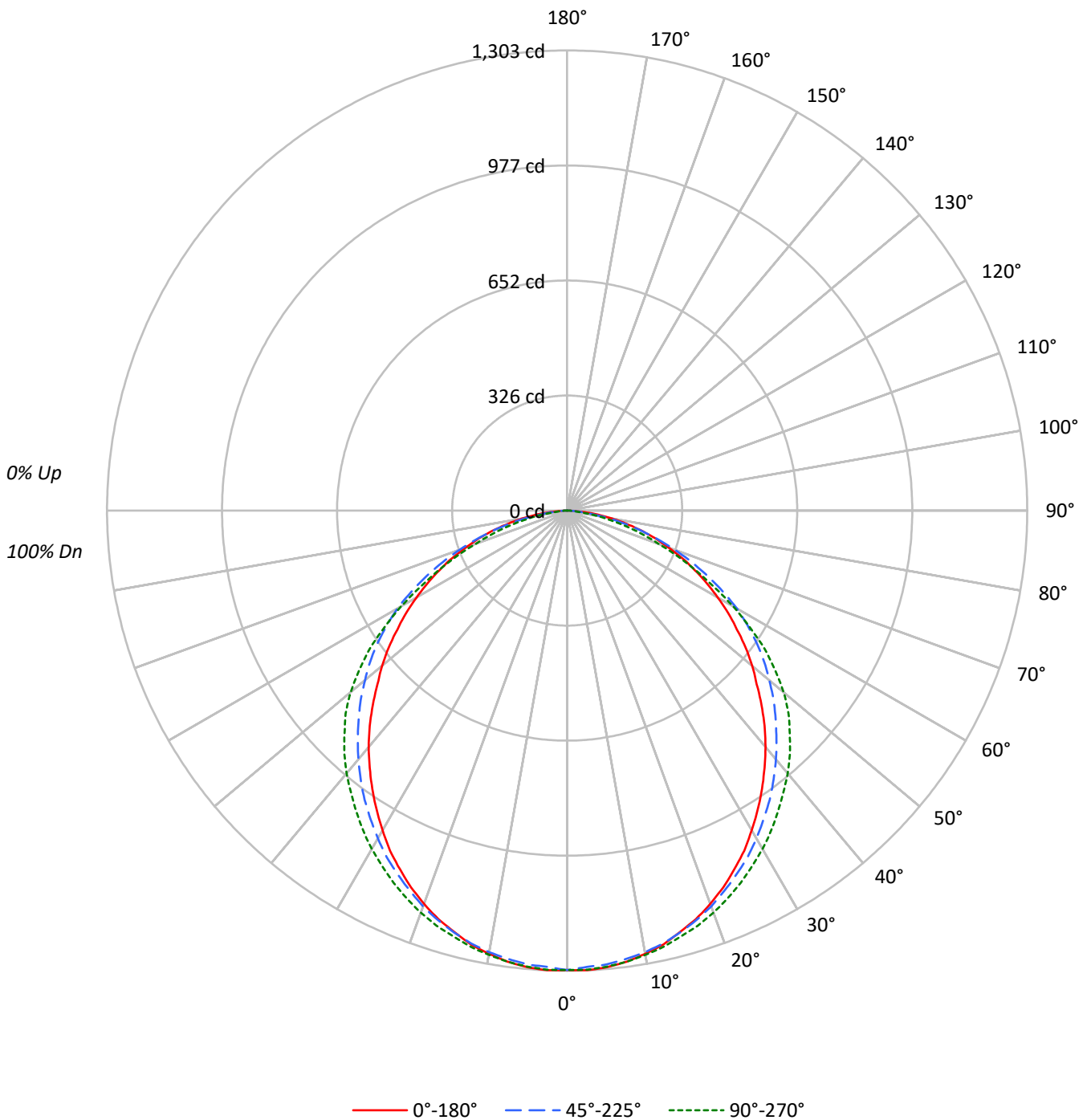
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3501	3501	3501
5°	3506	3485	3502
10°	3482	3469	3491
15°	3441	3445	3476
20°	3393	3416	3470
25°	3327	3374	3453
30°	3248	3331	3438
35°	3160	3284	3418
40°	3071	3231	3413
45°	2962	3177	3392
50°	2865	3127	3351
55°	2754	3078	3203
60°	2652	2990	2922
65°	2538	2798	2568
70°	2396	2544	2173
75°	2235	2203	1795
80°	1970	1703	1313
85°	1550	824	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.5
10°-20°	350.2	9.9
20°-30°	525.6	14.9
30°-40°	626.6	17.8
40°-50°	645.4	18.3
50°-60°	575.2	16.3
60°-70°	414.4	11.8
70°-80°	216.8	6.2
80°-90°	44.8	1.3
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°	998.7	28.4
0°-40°	1625.3	46.1
0°-60°	2846.0	80.8
0°-90°	3522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1298	1295	1290	1298	1296	123
15°	1235	1237	1237	1249	1248	349
25°	1120	1127	1136	1158	1163	516
35°	962	975	1000	1033	1040	602
45°	778	796	835	882	891	601
55°	587	606	656	686	683	526
65°	399	413	439	419	403	395
75°	215	226	212	184	173	228
85°	50	44	27	24	24	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.0	1301.0	1301.0	1301.0	1301.0
2.5°	1302.6	1299.5	1293.2	1301.0	1301.0
5°	1297.9	1294.8	1290.0	1297.9	1296.3
7.5°	1288.5	1285.3	1280.6	1290.0	1288.5
10°	1274.3	1272.8	1269.6	1279.1	1277.5
12.5°	1258.7	1257.1	1255.5	1264.9	1264.9
15°	1235.1	1236.7	1236.7	1249.2	1247.7
17.5°	1213.1	1214.7	1216.3	1232.0	1232.0
20°	1184.9	1186.5	1192.7	1210.0	1211.6
22.5°	1155.1	1156.6	1164.5	1184.9	1188.0
25°	1120.5	1126.8	1136.2	1158.2	1162.9
27.5°	1086.0	1090.7	1106.4	1131.5	1134.7
30°	1045.2	1054.6	1071.9	1100.1	1106.4
32.5°	1004.4	1015.4	1035.8	1067.2	1075.0
35°	962.0	974.6	999.7	1032.7	1040.5
37.5°	918.1	929.1	960.5	995.0	1006.0
40°	874.2	885.1	919.7	958.9	971.5
42.5°	827.1	842.8	877.3	921.2	933.8
45°	778.4	795.7	834.9	882.0	891.4
47.5°	728.2	747.0	792.5	839.6	850.6
50°	684.3	701.5	747.0	792.5	800.4
52.5°	637.2	652.9	703.1	740.8	742.3
55°	587.0	605.8	656.0	685.8	682.7
57.5°	541.4	557.1	605.8	621.5	612.1
60°	492.8	506.9	555.6	557.1	543.0
62.5°	445.7	459.8	497.5	486.5	469.2
65°	398.6	412.8	439.4	419.0	403.3
67.5°	353.1	365.7	381.4	354.7	339.0
70°	304.5	321.7	323.3	291.9	276.2
72.5°	262.1	271.5	268.4	238.5	224.4
75°	215.0	226.0	211.9	183.6	172.6
77.5°	171.1	178.9	160.1	133.4	125.6
80°	127.1	131.8	109.9	89.5	84.7
82.5°	86.3	86.3	62.8	48.7	43.9
85°	50.2	43.9	26.7	23.5	23.5
87.5°	17.3	11.0	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)