

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: P258796

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258796
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

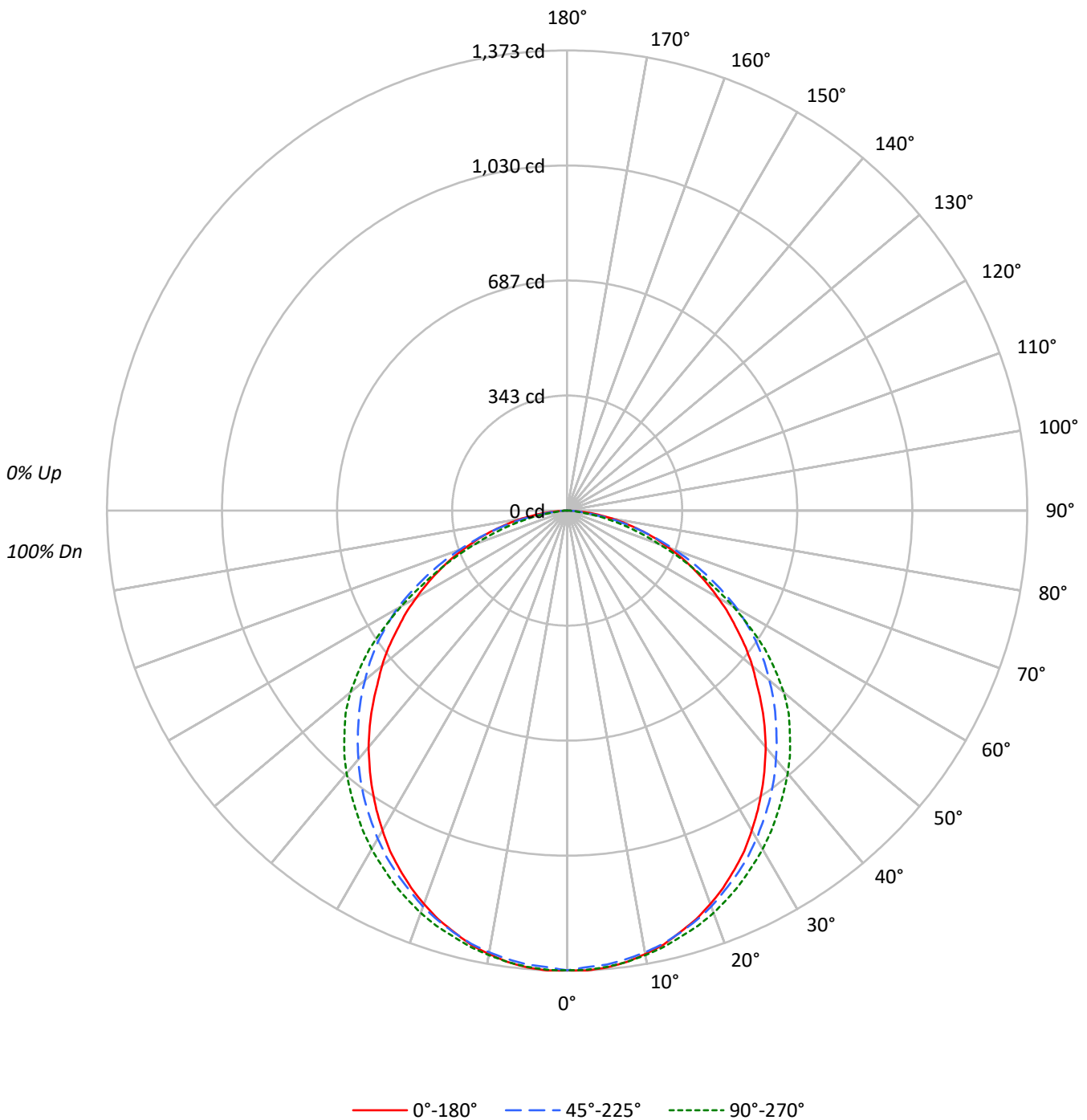
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3691	3691	3691
5°	3696	3674	3692
10°	3671	3657	3680
15°	3628	3632	3664
20°	3577	3601	3658
25°	3507	3557	3640
30°	3424	3511	3624
35°	3332	3462	3603
40°	3237	3406	3597
45°	3123	3350	3577
50°	3020	3297	3533
55°	2903	3245	3377
60°	2796	3152	3081
65°	2676	2950	2707
70°	2526	2681	2291
75°	2357	2323	1892
80°	2077	1795	1384
85°	1633	868	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.5
10°-20°	369.2	9.9
20°-30°	554.1	14.9
30°-40°	660.6	17.8
40°-50°	680.4	18.3
50°-60°	606.4	16.3
60°-70°	436.9	11.8
70°-80°	228.5	6.2
80°-90°	47.3	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°	1052.9	28.4
0°-40°	1713.5	46.1
0°-60°	3000.3	80.8
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1368	1365	1360	1368	1367	130
15°	1302	1304	1304	1317	1315	367
25°	1181	1188	1198	1221	1226	544
35°	1014	1027	1054	1089	1097	634
45°	821	839	880	930	940	633
55°	619	639	692	723	720	555
65°	420	435	463	442	425	416
75°	227	238	223	194	182	240
85°	53	46	28	25	25	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.6	1371.6	1371.6	1371.6	1371.6
2.5°	1373.2	1369.9	1363.3	1371.6	1371.6
5°	1368.3	1365.0	1360.0	1368.3	1366.6
7.5°	1358.3	1355.0	1350.1	1360.0	1358.3
10°	1343.5	1341.8	1338.5	1348.4	1346.8
12.5°	1326.9	1325.3	1323.6	1333.5	1333.5
15°	1302.1	1303.7	1303.7	1317.0	1315.3
17.5°	1278.9	1280.6	1282.2	1298.8	1298.8
20°	1249.2	1250.8	1257.4	1275.6	1277.3
22.5°	1217.7	1219.4	1227.6	1249.2	1252.5
25°	1181.3	1187.9	1197.9	1221.0	1226.0
27.5°	1144.9	1149.9	1166.4	1192.9	1196.2
30°	1101.9	1111.8	1130.0	1159.8	1166.4
32.5°	1058.9	1070.5	1092.0	1125.1	1133.3
35°	1014.2	1027.4	1053.9	1088.7	1096.9
37.5°	967.9	979.5	1012.6	1049.0	1060.5
40°	921.6	933.1	969.5	1010.9	1024.1
42.5°	871.9	888.5	924.9	971.2	984.4
45°	820.6	838.8	880.2	929.8	939.8
47.5°	767.7	787.5	835.5	885.2	896.7
50°	721.4	739.6	787.5	835.5	843.8
52.5°	671.7	688.3	741.2	780.9	782.6
55°	618.8	638.6	691.6	723.0	719.7
57.5°	570.8	587.3	638.6	655.2	645.3
60°	519.5	534.4	585.7	587.3	572.5
62.5°	469.9	484.8	524.5	512.9	494.7
65°	420.2	435.1	463.3	441.8	425.2
67.5°	372.3	385.5	402.0	373.9	357.4
70°	321.0	339.2	340.8	307.7	291.2
72.5°	276.3	286.2	282.9	251.5	236.6
75°	226.7	238.2	223.4	193.6	182.0
77.5°	180.3	188.6	168.8	140.6	132.4
80°	134.0	139.0	115.8	94.3	89.3
82.5°	91.0	91.0	66.2	51.3	46.3
85°	52.9	46.3	28.1	24.8	24.8
87.5°	18.2	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)