

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: P258594

Luminaire Tested: **14CZ-LD5-44-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L93050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

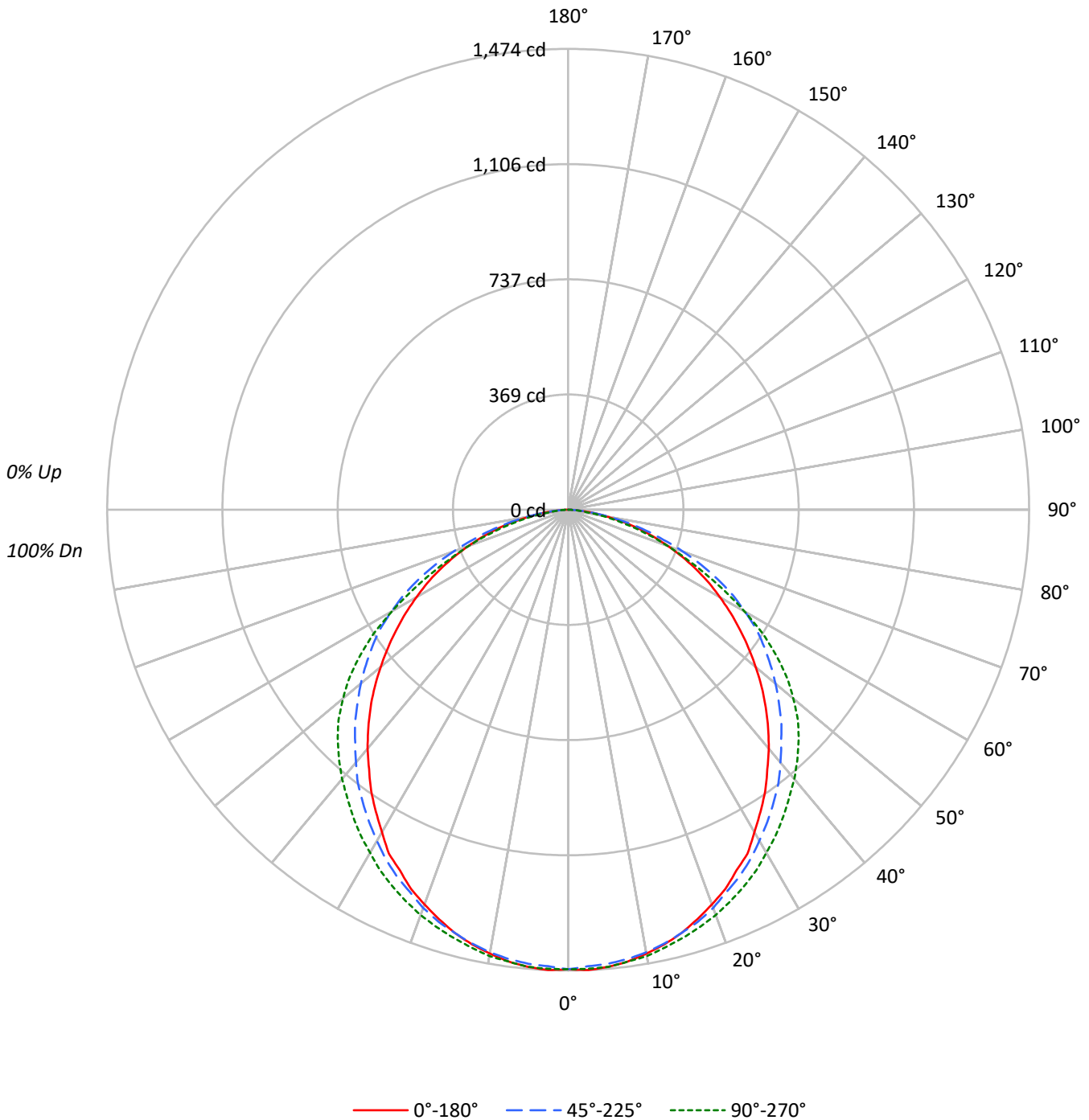
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3955	3955	3955
5°	3965	3938	3965
10°	3939	3929	3962
15°	3905	3905	3949
20°	3847	3881	3950
25°	3780	3845	3947
30°	3700	3800	3937
35°	3608	3760	3938
40°	3506	3710	3950
45°	3400	3668	3966
50°	3278	3623	3934
55°	3147	3589	3806
60°	3015	3512	3502
65°	2877	3363	3068
70°	2670	3065	2654
75°	2421	2672	2192
80°	1929	2115	1618
85°	1365	1179	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.4
10°-20°	397.3	9.8
20°-30°	599.0	14.7
30°-40°	718.0	17.6
40°-50°	745.1	18.3
50°-60°	672.1	16.5
60°-70°	490.3	12.0
70°-80°	257.2	6.3
80°-90°	54.9	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°	1135.4	27.9
0°-40°	1853.4	45.5
0°-60°	3270.6	80.3
0°-90°	4073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1468	1464	1458	1468	1468	139
15°	1402	1402	1402	1418	1418	395
25°	1273	1279	1295	1323	1329	587
35°	1098	1110	1144	1187	1199	686
45°	894	912	964	1022	1042	689
55°	671	695	765	815	811	600
65°	452	478	528	508	482	447
75°	233	265	257	223	211	244
85°	44	54	38	32	30	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.8	1469.8	1469.8	1469.8	1469.8
2.5°	1473.8	1469.8	1461.8	1469.8	1469.8
5°	1467.8	1463.8	1457.8	1467.8	1467.8
7.5°	1457.8	1453.8	1449.8	1459.8	1457.8
10°	1441.7	1439.7	1437.7	1449.8	1449.8
12.5°	1423.6	1423.6	1421.6	1435.7	1433.7
15°	1401.6	1401.6	1401.6	1417.6	1417.6
17.5°	1373.4	1377.5	1381.5	1399.6	1399.6
20°	1343.3	1347.3	1355.4	1377.5	1379.5
22.5°	1313.2	1315.2	1323.2	1349.4	1355.4
25°	1273.0	1279.1	1295.1	1323.2	1329.3
27.5°	1240.9	1242.9	1261.0	1293.1	1301.2
30°	1190.7	1204.8	1222.9	1259.0	1267.0
32.5°	1144.5	1156.6	1184.7	1222.9	1234.9
35°	1098.4	1110.4	1144.5	1186.7	1198.8
37.5°	1046.1	1064.2	1104.4	1146.5	1160.6
40°	998.0	1014.0	1056.2	1108.4	1124.5
42.5°	945.8	961.8	1008.0	1066.2	1084.3
45°	893.5	911.6	963.8	1022.1	1042.1
47.5°	839.3	859.4	913.6	977.9	996.0
50°	783.1	805.2	865.4	931.7	939.7
52.5°	726.9	751.0	815.2	873.5	881.5
55°	670.7	694.8	765.0	815.2	811.2
57.5°	616.4	642.5	714.8	740.9	736.9
60°	560.2	588.3	652.6	664.6	650.6
62.5°	508.0	534.1	594.4	584.3	566.2
65°	451.8	477.9	528.1	508.0	481.9
67.5°	395.6	427.7	459.8	425.7	405.6
70°	339.3	375.5	389.5	355.4	337.3
72.5°	285.1	323.3	319.3	285.1	273.1
75°	232.9	265.1	257.0	222.9	210.8
77.5°	176.7	212.8	194.8	166.7	156.6
80°	124.5	156.6	136.5	112.4	104.4
82.5°	82.3	104.4	84.3	66.3	60.2
85°	44.2	54.2	38.2	32.1	30.1
87.5°	18.1	16.1	14.1	14.1	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)