

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: P258561

Luminaire Tested: **14CZ-LD5-44-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258561
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-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.1 lumens
Efficiency: N/A
Efficacy: 116.0 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

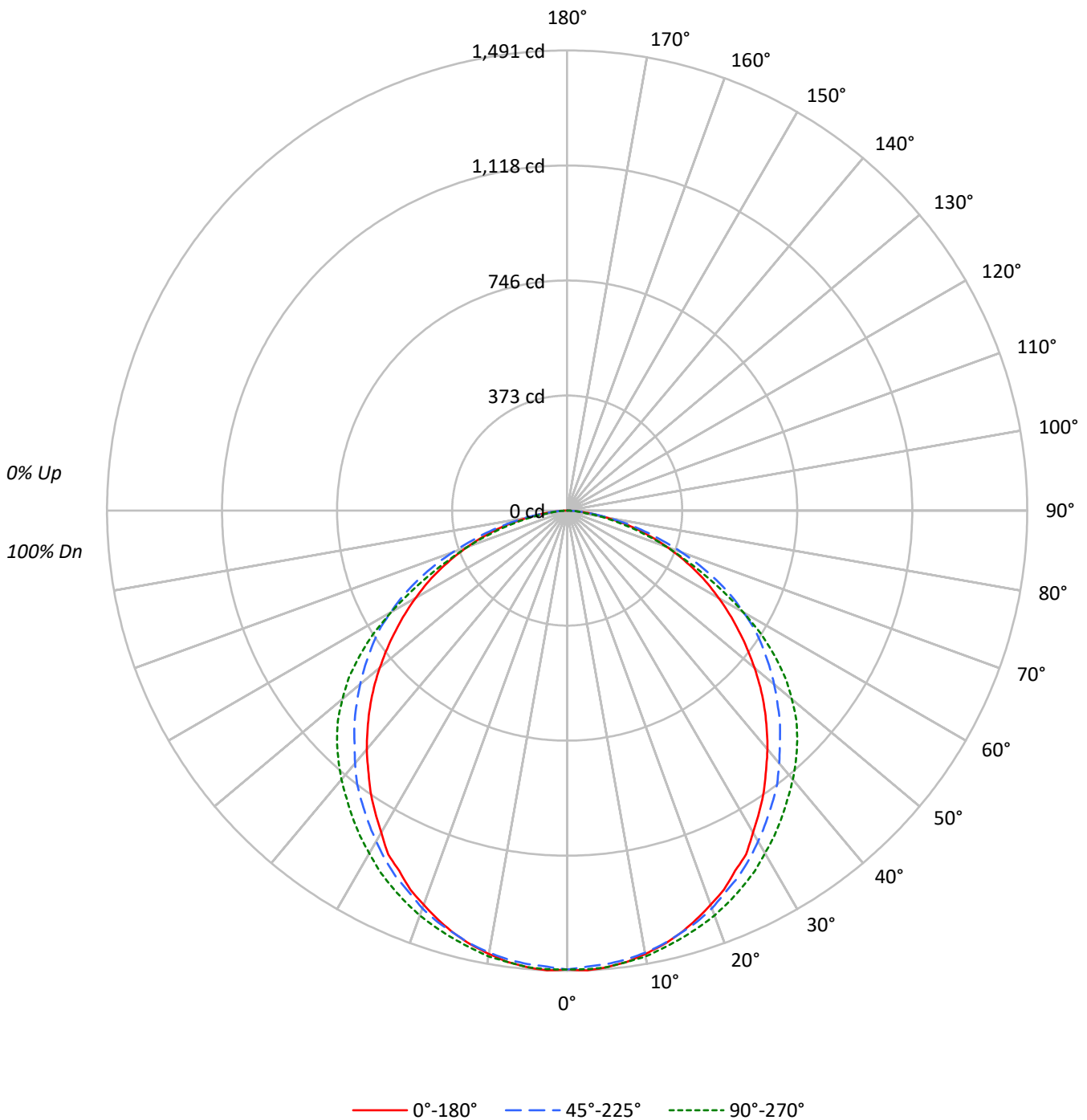
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4002	4002	4002
5°	4012	3984	4012
10°	3986	3975	4008
15°	3951	3951	3996
20°	3892	3927	3997
25°	3825	3891	3994
30°	3744	3845	3984
35°	3651	3804	3984
40°	3547	3754	3997
45°	3441	3711	4013
50°	3317	3666	3980
55°	3184	3632	3851
60°	3050	3554	3543
65°	2911	3402	3105
70°	2702	3101	2685
75°	2451	2704	2218
80°	1953	2142	1636
85°	1380	1192	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.4
10°-20°	402.0	9.8
20°-30°	606.1	14.7
30°-40°	726.5	17.6
40°-50°	753.9	18.3
50°-60°	680.0	16.5
60°-70°	496.0	12.0
70°-80°	260.3	6.3
80°-90°	55.5	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°	1148.8	27.9
0°-40°	1875.3	45.5
0°-60°	3309.3	80.3
0°-90°	4121.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1485	1481	1475	1485	1485	141
15°	1418	1418	1418	1434	1434	399
25°	1288	1294	1310	1339	1345	594
35°	1111	1124	1158	1201	1213	694
45°	904	922	975	1034	1054	697
55°	679	703	774	825	821	608
65°	457	484	534	514	488	452
75°	236	268	260	226	213	247
85°	45	55	39	32	30	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.2	1487.2	1487.2	1487.2	1487.2
2.5°	1491.3	1487.2	1479.1	1487.2	1487.2
5°	1485.2	1481.1	1475.0	1485.2	1485.2
7.5°	1475.0	1471.0	1466.9	1477.0	1475.0
10°	1458.8	1456.7	1454.7	1466.9	1466.9
12.5°	1440.5	1440.5	1438.4	1452.7	1450.6
15°	1418.1	1418.1	1418.1	1434.4	1434.4
17.5°	1389.7	1393.7	1397.8	1416.1	1416.1
20°	1359.2	1363.3	1371.4	1393.7	1395.8
22.5°	1328.7	1330.8	1338.9	1365.3	1371.4
25°	1288.1	1294.2	1310.4	1338.9	1345.0
27.5°	1255.6	1257.6	1275.9	1308.4	1316.5
30°	1204.8	1219.0	1237.3	1273.9	1282.0
32.5°	1158.1	1170.3	1198.7	1237.3	1249.5
35°	1111.3	1123.5	1158.1	1200.7	1212.9
37.5°	1058.5	1076.8	1117.4	1160.1	1174.3
40°	1009.8	1026.0	1068.7	1121.5	1137.8
42.5°	956.9	973.2	1019.9	1078.8	1097.1
45°	904.1	922.4	975.2	1034.1	1054.5
47.5°	849.3	869.6	924.4	989.4	1007.7
50°	792.4	814.7	875.7	942.7	950.8
52.5°	735.5	759.9	824.9	883.8	891.9
55°	678.6	703.0	774.1	824.9	820.8
57.5°	623.7	650.1	723.3	749.7	745.6
60°	566.8	595.3	660.3	672.5	658.3
62.5°	514.0	540.4	601.4	591.2	572.9
65°	457.1	483.5	534.3	514.0	487.6
67.5°	400.2	432.8	465.3	430.7	410.4
70°	343.4	379.9	394.1	359.6	341.3
72.5°	288.5	327.1	323.0	288.5	276.3
75°	235.7	268.2	260.1	225.5	213.3
77.5°	178.8	215.4	197.1	168.6	158.5
80°	126.0	158.5	138.2	113.8	105.6
82.5°	83.3	105.6	85.3	67.0	61.0
85°	44.7	54.9	38.6	32.5	30.5
87.5°	18.3	16.3	14.2	14.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)