

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: P258702

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258702
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4111.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

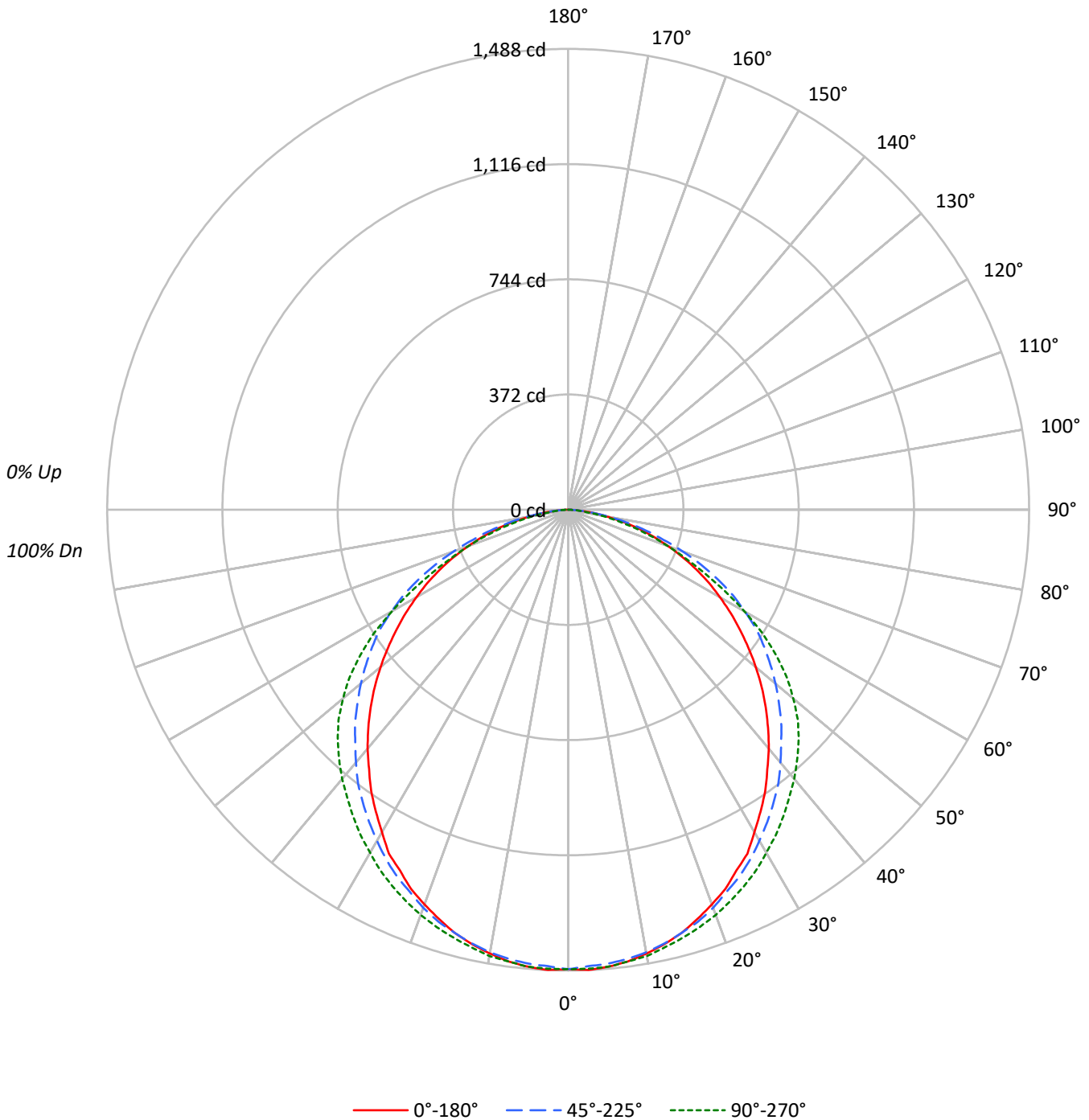
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3992	3992	3992
5°	4002	3975	4002
10°	3976	3965	3998
15°	3941	3941	3986
20°	3883	3918	3987
25°	3815	3881	3984
30°	3734	3835	3974
35°	3642	3795	3975
40°	3538	3745	3987
45°	3432	3702	4003
50°	3309	3657	3971
55°	3176	3623	3841
60°	3043	3545	3534
65°	2904	3394	3097
70°	2695	3094	2679
75°	2444	2697	2213
80°	1948	2135	1633
85°	1377	1189	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.4
10°-20°	401.0	9.8
20°-30°	604.6	14.7
30°-40°	724.7	17.6
40°-50°	752.1	18.3
50°-60°	678.4	16.5
60°-70°	494.8	12.0
70°-80°	259.6	6.3
80°-90°	55.4	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°	1146.0	27.9
0°-40°	1870.7	45.5
0°-60°	3301.2	80.3
0°-90°	4111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1482	1478	1471	1482	1482	141
15°	1415	1415	1415	1431	1431	398
25°	1285	1291	1307	1336	1342	593
35°	1109	1121	1155	1198	1210	692
45°	902	920	973	1032	1052	695
55°	677	701	772	823	819	606
65°	456	482	533	513	486	451
75°	235	268	259	225	213	247
85°	45	55	38	32	30	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.5	1483.5	1483.5	1483.5	1483.5
2.5°	1487.6	1483.5	1475.4	1483.5	1483.5
5°	1481.5	1477.5	1471.4	1481.5	1481.5
7.5°	1471.4	1467.3	1463.3	1473.4	1471.4
10°	1455.2	1453.1	1451.1	1463.3	1463.3
12.5°	1436.9	1436.9	1434.9	1449.1	1447.1
15°	1414.6	1414.6	1414.6	1430.8	1430.8
17.5°	1386.3	1390.3	1394.4	1412.6	1412.6
20°	1355.9	1359.9	1368.0	1390.3	1392.3
22.5°	1325.5	1327.5	1335.6	1361.9	1368.0
25°	1284.9	1291.0	1307.2	1335.6	1341.7
27.5°	1252.5	1254.5	1272.8	1305.2	1313.3
30°	1201.8	1216.0	1234.3	1270.7	1278.8
32.5°	1155.2	1167.4	1195.8	1234.3	1246.4
35°	1108.6	1120.8	1155.2	1197.8	1209.9
37.5°	1055.9	1074.2	1114.7	1157.2	1171.4
40°	1007.3	1023.5	1066.0	1118.7	1135.0
42.5°	954.6	970.8	1017.4	1076.2	1094.4
45°	901.9	920.1	972.8	1031.6	1051.9
47.5°	847.2	867.4	922.1	987.0	1005.2
50°	790.4	812.7	873.5	940.4	948.5
52.5°	733.7	758.0	822.8	881.6	889.7
55°	676.9	701.2	772.2	822.8	818.8
57.5°	622.2	648.5	721.5	747.9	743.8
60°	565.4	593.8	658.7	670.8	656.7
62.5°	512.8	539.1	599.9	589.8	571.5
65°	456.0	482.4	533.0	512.8	486.4
67.5°	399.3	431.7	464.1	429.7	409.4
70°	342.5	379.0	393.2	358.7	340.5
72.5°	287.8	326.3	322.2	287.8	275.6
75°	235.1	267.5	259.4	225.0	212.8
77.5°	178.3	214.8	196.6	168.2	158.1
80°	125.7	158.1	137.8	113.5	105.4
82.5°	83.1	105.4	85.1	66.9	60.8
85°	44.6	54.7	38.5	32.4	30.4
87.5°	18.2	16.2	14.2	14.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)