

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: P#

Luminaire Tested: **14CZ-LD5-39-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L835-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4038.2 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

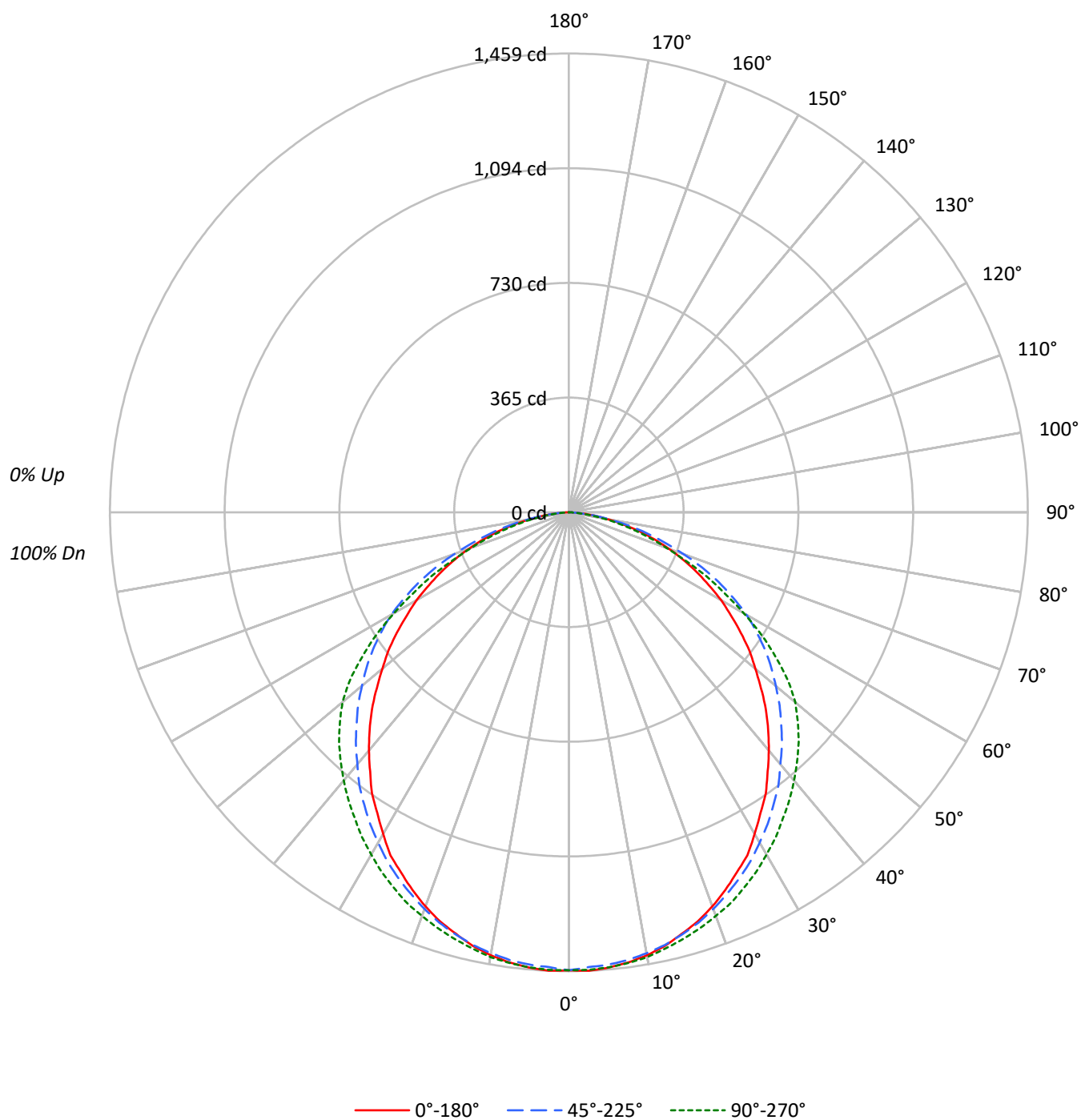
Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79
3	90	80	72	66	88	78	71	65	75	69	64		73	67	63		70
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3919	3919	3919
5°	3917	3870	3889
10°	3891	3830	3856
15°	3840	3782	3809
20°	3785	3724	3773
25°	3707	3660	3736
30°	3617	3586	3691
35°	3523	3510	3644
40°	3402	3420	3608
45°	3288	3336	3575
50°	3145	3252	3515
55°	3023	3166	3298
60°	2884	3047	2946
65°	2702	2812	2531
70°	2488	2445	2038
75°	2195	1993	1586
80°	1691	1385	1060
85°	1066	593	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.4
10°-20°	393.6	9.7
20°-30°	593.8	14.7
30°-40°	712.0	17.6
40°-50°	738.9	18.3
50°-60°	667.0	16.5
60°-70°	485.8	12.0
70°-80°	254.8	6.3
80°-90°	54.5	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°	1125.2	27.9
0°-40°	1837.2	45.5
0°-60°	3243.1	80.3
0°-90°	4038.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4038.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1453	1450	1444	1453	1452	138
15°	1388	1388	1390	1405	1404	392
25°	1263	1270	1283	1311	1317	582
35°	1091	1102	1135	1177	1187	680
45°	886	905	954	1014	1033	682
55°	667	690	760	805	803	597
65°	447	474	525	501	483	443
75°	231	264	255	220	210	243
85°	44	53	39	30	28	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.2	1456.2	1456.2	1456.2	1456.2
2.5°	1459.1	1455.2	1447.5	1457.2	1456.2
5°	1453.3	1450.4	1443.6	1453.3	1452.3
7.5°	1443.6	1441.7	1435.9	1446.5	1445.6
10°	1430.1	1427.2	1423.4	1434.9	1435.9
12.5°	1411.8	1410.8	1408.9	1421.4	1420.5
15°	1387.6	1387.6	1389.6	1405.0	1404.0
17.5°	1363.5	1363.5	1368.3	1385.7	1386.7
20°	1333.6	1335.5	1342.2	1363.5	1365.4
22.5°	1299.8	1301.7	1313.3	1340.3	1345.1
25°	1263.1	1269.8	1283.3	1311.3	1317.1
27.5°	1229.3	1230.2	1250.5	1281.4	1289.1
30°	1181.0	1194.5	1212.8	1248.6	1256.3
32.5°	1133.7	1147.2	1175.2	1213.8	1224.4
35°	1091.2	1101.8	1134.6	1177.1	1186.8
37.5°	1038.1	1055.4	1094.1	1138.5	1152.0
40°	988.8	1004.3	1045.8	1096.0	1113.4
42.5°	937.6	955.0	1002.3	1056.4	1073.8
45°	885.5	904.8	954.1	1013.9	1033.2
47.5°	828.5	852.7	908.7	969.5	986.9
50°	773.5	798.6	858.5	922.2	939.6
52.5°	723.3	745.5	811.1	870.0	877.8
55°	667.3	690.4	760.0	805.3	803.4
57.5°	611.3	637.3	706.8	734.9	727.1
60°	559.1	583.2	652.8	658.6	642.2
62.5°	501.2	529.2	588.1	579.4	559.1
65°	447.1	474.1	525.3	501.2	482.8
67.5°	392.1	421.0	457.7	422.0	400.7
70°	338.0	372.7	386.3	347.6	330.2
72.5°	282.9	319.6	318.7	282.0	267.5
75°	230.8	263.6	254.9	220.2	209.5
77.5°	175.7	208.6	192.2	166.1	156.4
80°	124.6	155.5	134.2	113.9	107.2
82.5°	85.0	103.3	84.0	66.6	63.7
85°	44.4	53.1	38.6	29.9	28.0
87.5°	16.4	15.5	13.5	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)