

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-LD5-35-S-UNV-L850-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-LD5-35-S-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

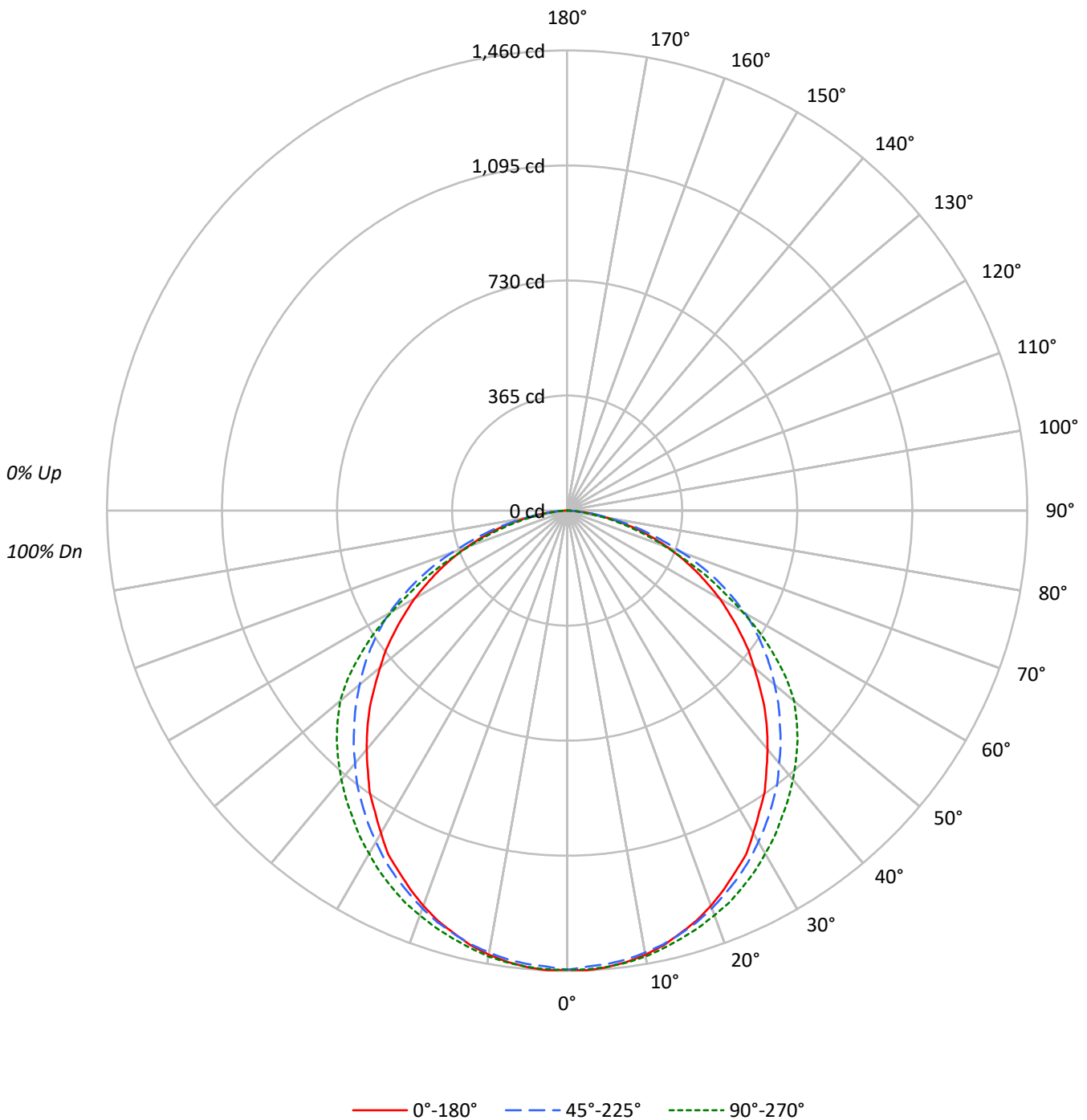
Lumens per Lamp: N/A
Luminaire Lumens: 4040.2 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.48
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



TEST NUMBER: P#
CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L850-CD1-U

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°	3920	3920	3920
5°	3919	3872	3891
10°	3892	3832	3857
15°	3842	3784	3812
20°	3786	3726	3775
25°	3709	3661	3738
30°	3619	3588	3692
35°	3525	3512	3645
40°	3404	3422	3610
45°	3289	3337	3577
50°	3146	3253	3516
55°	3024	3167	3300
60°	2886	3048	2947
65°	2703	2813	2533
70°	2489	2447	2039
75°	2196	1994	1588
80°	1691	1386	1060
85°	1066	593	403



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.4
10°-20°	393.8	9.7
20°-30°	594.1	14.7
30°-40°	712.4	17.6
40°-50°	739.2	18.3
50°-60°	667.4	16.5
60°-70°	486.0	12.0
70°-80°	255.0	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°	1125.7	27.9
0°-40°	1838.1	45.5
0°-60°	3244.7	80.3
0°-90°	4040.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1454	1451	1444	1454	1453	138
15°	1388	1388	1390	1406	1405	392
25°	1264	1270	1284	1312	1318	583
35°	1092	1102	1135	1178	1187	681
45°	886	905	954	1014	1034	682
55°	668	691	760	806	804	597
65°	447	474	526	501	483	443
75°	231	264	255	220	210	243
85°	44	53	39	30	28	57
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.9	1456.9	1456.9	1456.9	1456.9
2.5°	1459.8	1456.0	1448.2	1457.9	1456.9
5°	1454.0	1451.1	1444.4	1454.0	1453.1
7.5°	1444.4	1442.4	1436.6	1447.3	1446.3
10°	1430.8	1427.9	1424.1	1435.7	1436.6
12.5°	1412.5	1411.5	1409.6	1422.1	1421.2
15°	1388.3	1388.3	1390.3	1405.7	1404.8
17.5°	1364.2	1364.2	1369.0	1386.4	1387.4
20°	1334.2	1336.2	1342.9	1364.2	1366.1
22.5°	1300.4	1302.3	1313.9	1341.0	1345.8
25°	1263.7	1270.5	1284.0	1312.0	1317.8
27.5°	1229.9	1230.9	1251.1	1282.1	1289.8
30°	1181.6	1195.1	1213.5	1249.2	1256.9
32.5°	1134.2	1147.8	1175.8	1214.4	1225.1
35°	1091.7	1102.4	1135.2	1177.7	1187.4
37.5°	1038.6	1056.0	1094.6	1139.1	1152.6
40°	989.3	1004.8	1046.3	1096.6	1113.9
42.5°	938.1	955.5	1002.8	1056.9	1074.3
45°	885.9	905.3	954.5	1014.4	1033.8
47.5°	828.9	853.1	909.1	970.0	987.4
50°	773.9	799.0	858.9	922.7	940.0
52.5°	723.6	745.9	811.5	870.5	878.2
55°	667.6	690.8	760.3	805.8	803.8
57.5°	611.6	637.6	707.2	735.2	727.5
60°	559.4	583.5	653.1	658.9	642.5
62.5°	501.4	529.4	588.4	579.7	559.4
65°	447.3	474.4	525.6	501.4	483.1
67.5°	392.2	421.2	457.9	422.2	400.9
70°	338.1	372.9	386.5	347.8	330.4
72.5°	283.1	319.8	318.8	282.1	267.6
75°	230.9	263.8	255.1	220.3	209.7
77.5°	175.8	208.7	192.3	166.2	156.5
80°	124.6	155.5	134.3	114.0	107.2
82.5°	85.0	103.4	84.1	66.7	63.8
85°	44.4	53.1	38.6	30.0	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)