

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-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-LD5-39-S-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4455.5 lumens
Efficiency: N/A
Efficacy: 124.9 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

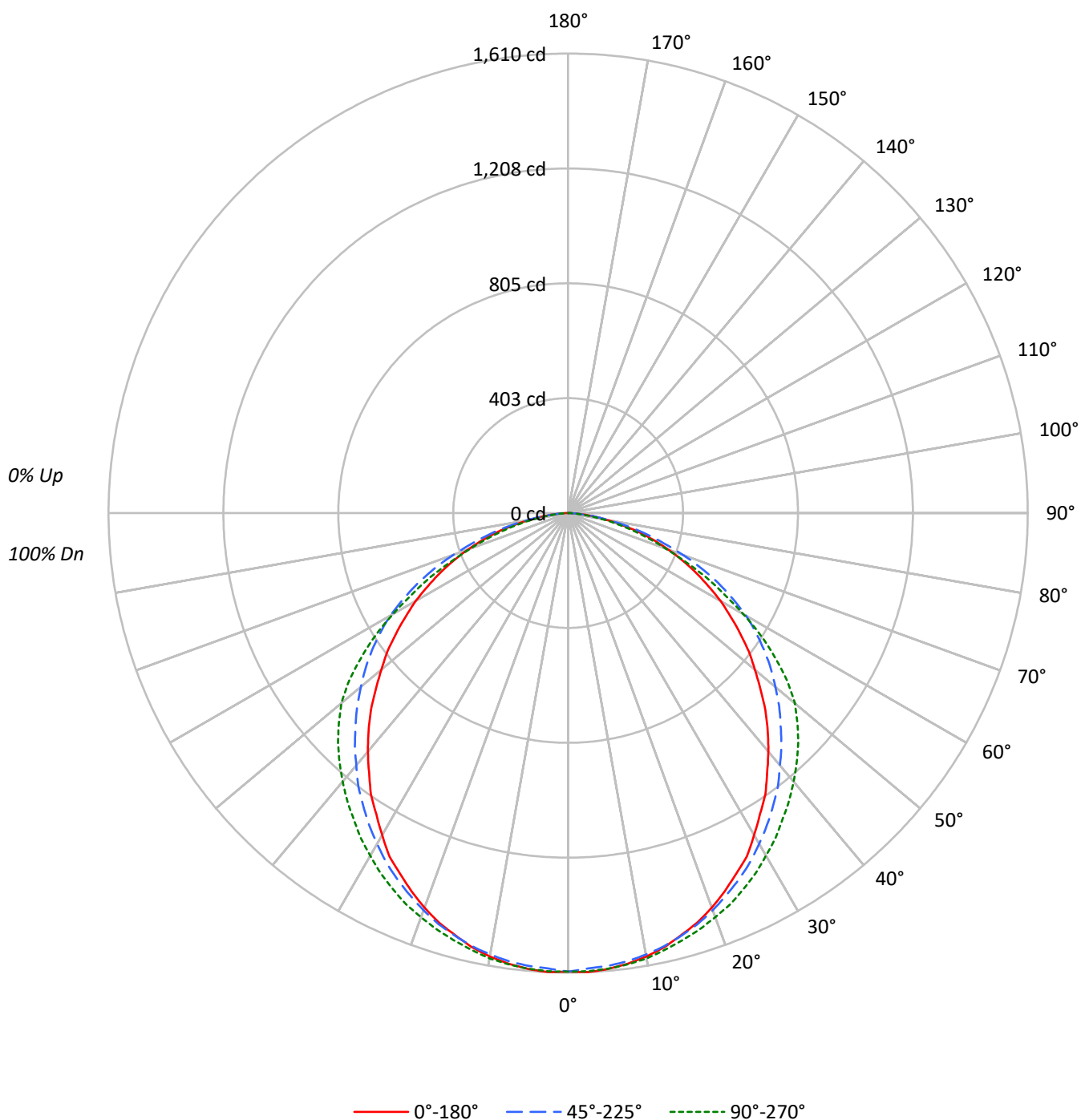
Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L850-CD1-U

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4324	4324	4324
5°	4322	4270	4291
10°	4293	4226	4254
15°	4237	4173	4203
20°	4176	4109	4163
25°	4090	4038	4123
30°	3991	3956	4072
35°	3887	3873	4020
40°	3754	3774	3981
45°	3627	3680	3944
50°	3469	3587	3878
55°	3335	3493	3639
60°	3182	3361	3250
65°	2981	3102	2793
70°	2745	2698	2249
75°	2421	2199	1751
80°	1865	1529	1170
85°	1177	654	445



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	3.4
10°-20°	434.3	9.7
20°-30°	655.2	14.7
30°-40°	785.6	17.6
40°-50°	815.2	18.3
50°-60°	736.0	16.5
60°-70°	536.0	12.0
70°-80°	281.2	6.3
80°-90°	60.1	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°	1241.4	27.9
0°-40°	2027.0	45.5
0°-60°	3578.2	80.3
0°-90°	4455.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1604	1600	1593	1604	1602	152
15°	1531	1531	1533	1550	1549	432
25°	1394	1401	1416	1447	1453	642
35°	1204	1216	1252	1299	1309	751
45°	977	998	1053	1119	1140	752
55°	736	762	838	889	886	658
65°	493	523	580	553	533	488
75°	255	291	281	243	231	268
85°	49	59	43	33	31	62
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606.7	1606.7	1606.7	1606.7	1606.7
2.5°	1609.9	1605.6	1597.1	1607.7	1606.7
5°	1603.5	1600.3	1592.8	1603.5	1602.4
7.5°	1592.8	1590.7	1584.3	1596.0	1595.0
10°	1577.9	1574.7	1570.5	1583.2	1584.3
12.5°	1557.7	1556.6	1554.5	1568.3	1567.3
15°	1531.0	1531.0	1533.2	1550.2	1549.1
17.5°	1504.4	1504.4	1509.7	1528.9	1530.0
20°	1471.4	1473.5	1481.0	1504.4	1506.5
22.5°	1434.1	1436.2	1449.0	1478.8	1484.2
25°	1393.6	1401.0	1416.0	1446.9	1453.3
27.5°	1356.3	1357.4	1379.7	1413.8	1422.4
30°	1303.0	1317.9	1338.2	1377.6	1386.1
32.5°	1250.8	1265.7	1296.6	1339.3	1351.0
35°	1203.9	1215.7	1251.9	1298.8	1309.4
37.5°	1145.3	1164.5	1207.1	1256.1	1271.1
40°	1091.0	1108.1	1153.9	1209.3	1228.4
42.5°	1034.5	1053.7	1105.9	1165.6	1184.8
45°	977.0	998.3	1052.6	1118.7	1140.0
47.5°	914.1	940.8	1002.6	1069.7	1088.9
50°	853.4	881.1	947.2	1017.5	1036.7
52.5°	798.0	822.5	895.0	960.0	968.5
55°	736.2	761.8	838.5	888.6	886.4
57.5°	674.4	703.2	779.9	810.8	802.3
60°	616.9	643.5	720.2	726.6	708.5
62.5°	553.0	583.9	648.8	639.3	616.9
65°	493.3	523.1	579.6	553.0	532.7
67.5°	432.6	464.5	505.0	465.6	442.2
70°	372.9	411.3	426.2	383.6	364.4
72.5°	312.2	352.7	351.6	311.1	295.1
75°	254.6	290.9	281.3	242.9	231.2
77.5°	193.9	230.1	212.0	183.3	172.6
80°	137.4	171.5	148.1	125.7	118.3
82.5°	93.8	114.0	92.7	73.5	70.3
85°	49.0	58.6	42.6	33.0	30.9
87.5°	18.1	17.0	14.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)