

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-LD5-44-UNV-L830-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-LD5-44-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

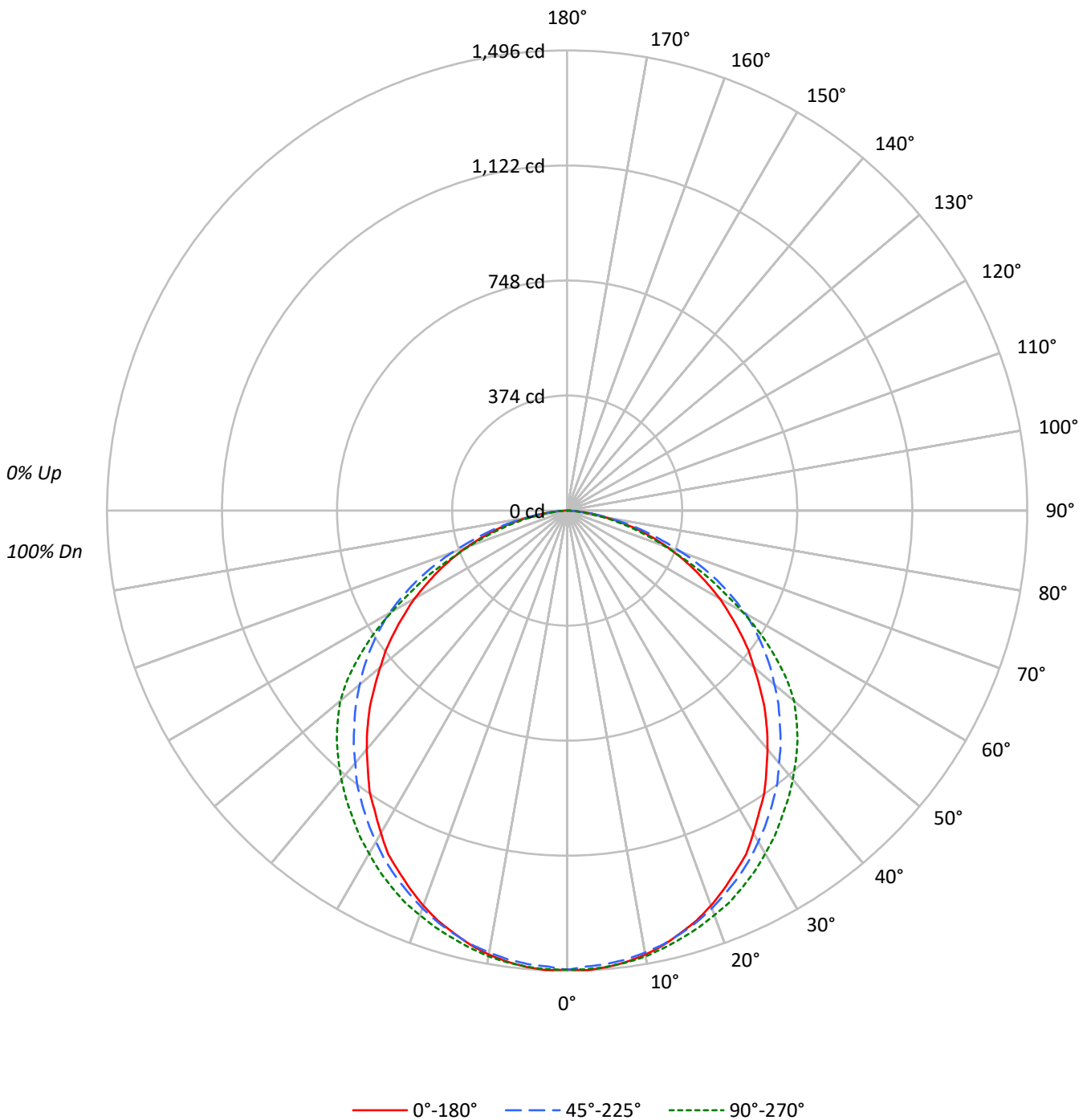
Lumens per Lamp: N/A
Luminaire Lumens: 4139.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.12
Input Voltage (V): NR
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°	4016	4016	4016
5°	4015	3966	3986
10°	3988	3925	3952
15°	3936	3876	3905
20°	3879	3817	3867
25°	3800	3751	3830
30°	3708	3675	3783
35°	3611	3598	3734
40°	3487	3505	3698
45°	3370	3419	3664
50°	3223	3333	3602
55°	3098	3245	3381
60°	2956	3123	3019
65°	2770	2882	2595
70°	2551	2506	2089
75°	2250	2043	1626
80°	1733	1420	1086
85°	1093	608	413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.4
10°-20°	403.4	9.7
20°-30°	608.6	14.7
30°-40°	729.8	17.6
40°-50°	757.3	18.3
50°-60°	683.7	16.5
60°-70°	497.9	12.0
70°-80°	261.2	6.3
80°-90°	55.9	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°	1153.3	27.9
0°-40°	1883.1	45.5
0°-60°	3324.1	80.3
0°-90°	4139.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4139.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1490	1487	1480	1490	1489	141
15°	1422	1422	1424	1440	1439	401
25°	1295	1302	1315	1344	1350	597
35°	1118	1129	1163	1206	1216	697
45°	908	927	978	1039	1059	699
55°	684	708	779	826	824	611
65°	458	486	538	514	495	454
75°	237	270	261	226	215	249
85°	46	54	40	31	29	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.5	1492.5	1492.5	1492.5	1492.5
2.5°	1495.5	1491.6	1483.6	1493.6	1492.5
5°	1489.6	1486.7	1479.7	1489.6	1488.6
7.5°	1479.7	1477.7	1471.7	1482.7	1481.7
10°	1465.8	1462.9	1458.9	1470.8	1471.7
12.5°	1447.0	1446.1	1444.1	1456.9	1456.0
15°	1422.3	1422.3	1424.2	1440.1	1439.2
17.5°	1397.5	1397.5	1402.5	1420.3	1421.3
20°	1366.9	1368.9	1375.8	1397.5	1399.5
22.5°	1332.2	1334.2	1346.1	1373.8	1378.7
25°	1294.7	1301.5	1315.4	1344.1	1350.0
27.5°	1260.0	1260.9	1281.7	1313.4	1321.4
30°	1210.5	1224.4	1243.2	1279.7	1287.7
32.5°	1161.9	1175.8	1204.5	1244.1	1255.0
35°	1118.4	1129.4	1163.0	1206.5	1216.4
37.5°	1064.0	1081.9	1121.4	1167.0	1180.8
40°	1013.6	1029.3	1071.9	1123.4	1141.2
42.5°	961.0	978.9	1027.3	1082.8	1100.6
45°	907.6	927.4	977.9	1039.3	1059.1
47.5°	849.2	874.0	931.4	993.7	1011.6
50°	792.8	818.5	879.9	945.2	963.0
52.5°	741.4	764.1	831.4	891.8	899.6
55°	683.9	707.7	778.9	825.5	823.5
57.5°	626.5	653.2	724.5	753.3	745.3
60°	573.0	597.8	669.1	675.0	658.2
62.5°	513.7	542.4	602.8	593.8	573.0
65°	458.3	486.0	538.5	513.7	494.9
67.5°	401.8	431.6	469.1	432.5	410.8
70°	346.5	382.1	395.9	356.3	338.5
72.5°	290.0	327.7	326.6	289.0	274.2
75°	236.6	270.2	261.3	225.6	214.8
77.5°	180.1	213.8	196.9	170.2	160.4
80°	127.7	159.3	137.6	116.8	109.8
82.5°	87.1	105.9	86.1	68.3	65.4
85°	45.5	54.4	39.6	30.7	28.7
87.5°	16.8	15.9	13.9	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)