

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-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-LD5-44-UNV-L835-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

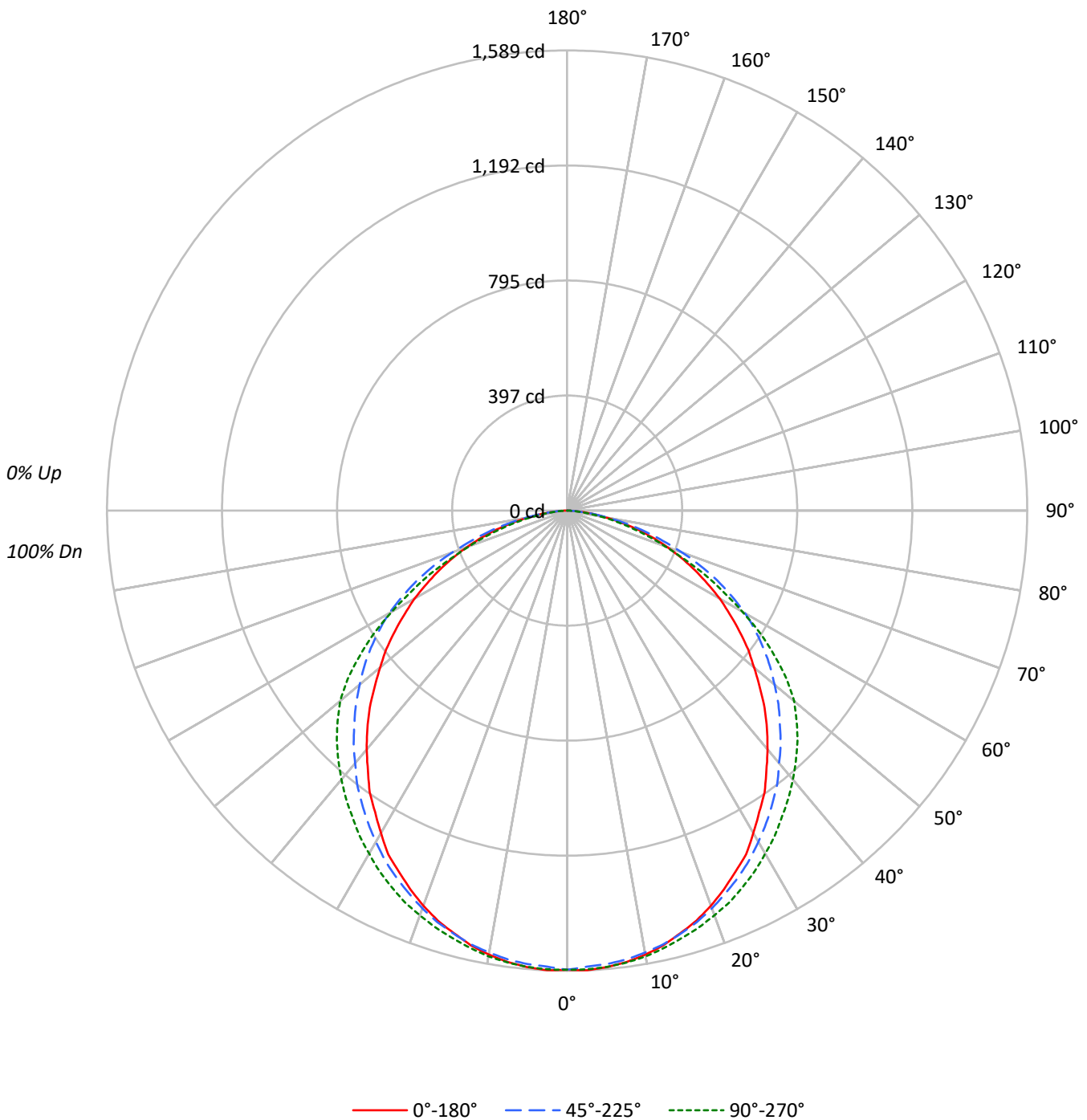
Lumens per Lamp: N/A  
Luminaire Lumens: 4397.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 41.12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	4267	4267	4267
5°	4265	4214	4235
10°	4236	4170	4198
15°	4181	4118	4148
20°	4121	4055	4108
25°	4036	3985	4069
30°	3939	3904	4018
35°	3836	3822	3967
40°	3705	3724	3929
45°	3580	3632	3892
50°	3424	3540	3827
55°	3291	3447	3591
60°	3141	3318	3208
65°	2942	3062	2756
70°	2709	2663	2219
75°	2390	2170	1728
80°	1840	1509	1154
85°	1162	647	439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.0	3.4
10°-20°	428.6	9.7
20°-30°	646.6	14.7
30°-40°	775.3	17.6
40°-50°	804.5	18.3
50°-60°	726.3	16.5
60°-70°	529.0	12.0
70°-80°	277.5	6.3
80°-90°	59.4	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°	1225.1	27.9
0°-40°	2000.4	45.5
0°-60°	3531.2	80.3
0°-90°	4397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1582	1579	1572	1582	1581	150
15°	1511	1511	1513	1530	1529	426
25°	1375	1383	1397	1428	1434	634
35°	1188	1200	1235	1282	1292	741
45°	964	985	1039	1104	1125	742
55°	726	752	828	877	875	650
65°	487	516	572	546	526	482
75°	251	287	278	240	228	264
85°	48	58	42	33	30	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1585.6	1585.6	1585.6	1585.6	1585.6
2.5°	1588.7	1584.5	1576.1	1586.6	1585.6
5°	1582.4	1579.3	1571.9	1582.4	1581.4
7.5°	1571.9	1569.8	1563.5	1575.1	1574.0
10°	1557.2	1554.0	1549.8	1562.4	1563.5
12.5°	1537.2	1536.2	1534.1	1547.7	1546.7
15°	1510.9	1510.9	1513.0	1529.9	1528.8
17.5°	1484.6	1484.6	1489.9	1508.8	1509.9
20°	1452.0	1454.1	1461.5	1484.6	1486.7
22.5°	1415.2	1417.3	1430.0	1459.4	1464.7
25°	1375.3	1382.7	1397.4	1427.9	1434.2
27.5°	1338.5	1339.5	1361.6	1395.3	1403.7
30°	1285.9	1300.6	1320.6	1359.5	1367.9
32.5°	1234.4	1249.1	1279.6	1321.7	1333.2
35°	1188.1	1199.7	1235.4	1281.7	1292.2
37.5°	1130.3	1149.2	1191.3	1239.7	1254.4
40°	1076.7	1093.5	1138.7	1193.4	1212.3
42.5°	1021.0	1039.9	1091.4	1150.3	1169.2
45°	964.2	985.2	1038.8	1104.0	1125.0
47.5°	902.1	928.4	989.4	1055.7	1074.6
50°	842.2	869.5	934.7	1004.1	1023.1
52.5°	787.5	811.7	883.2	947.4	955.8
55°	726.5	751.8	827.5	876.9	874.8
57.5°	665.6	694.0	769.7	800.2	791.7
60°	608.8	635.1	710.8	717.1	699.2
62.5°	545.7	576.2	640.3	630.9	608.8
65°	486.8	516.3	572.0	545.7	525.7
67.5°	426.9	458.4	498.4	459.5	436.3
70°	368.0	405.9	420.6	378.5	359.6
72.5°	308.1	348.0	347.0	307.0	291.3
75°	251.3	287.0	277.6	239.7	228.2
77.5°	191.4	227.1	209.2	180.8	170.3
80°	135.6	169.3	146.2	124.1	116.7
82.5°	92.5	112.5	91.5	72.5	69.4
85°	48.4	57.8	42.1	32.6	30.5
87.5°	17.9	16.8	14.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)