

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-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-LD5-39-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

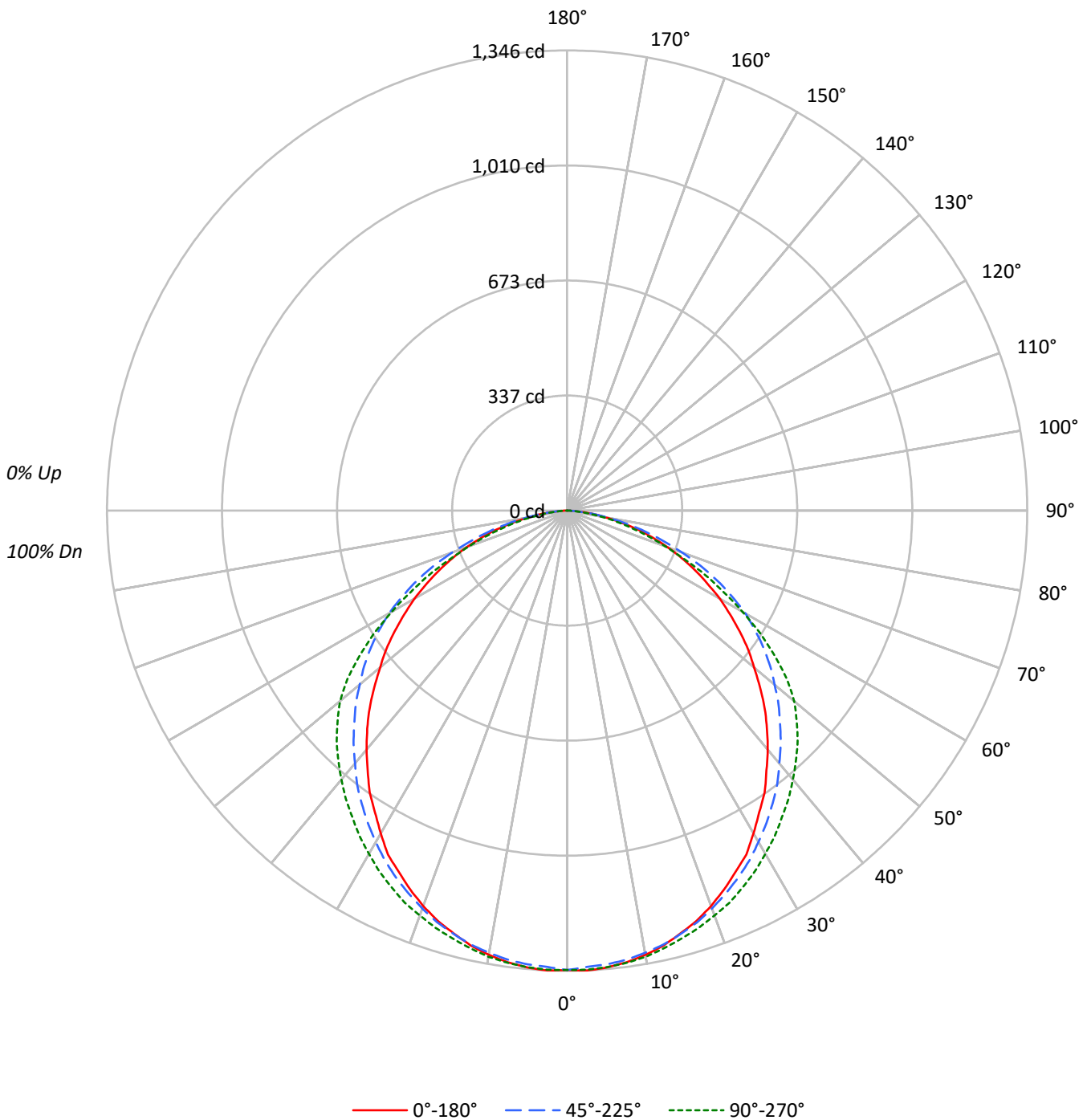
Lumens per Lamp: N/A
Luminaire Lumens: 3726.7 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (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°	3616	3616	3616
5°	3615	3571	3589
10°	3591	3534	3558
15°	3544	3490	3516
20°	3493	3437	3482
25°	3421	3377	3448
30°	3338	3309	3406
35°	3251	3239	3363
40°	3140	3156	3330
45°	3034	3079	3299
50°	2902	3000	3243
55°	2789	2922	3044
60°	2661	2812	2718
65°	2494	2595	2336
70°	2296	2256	1881
75°	2026	1840	1464
80°	1561	1279	978
85°	985	547	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.4
10°-20°	363.2	9.7
20°-30°	548.0	14.7
30°-40°	657.1	17.6
40°-50°	681.9	18.3
50°-60°	615.6	16.5
60°-70°	448.3	12.0
70°-80°	235.2	6.3
80°-90°	50.3	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°	1038.4	27.9
0°-40°	1695.5	45.5
0°-60°	2993.0	80.3
0°-90°	3726.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1341	1339	1332	1341	1340	127
15°	1281	1281	1282	1297	1296	361
25°	1166	1172	1184	1210	1216	537
35°	1007	1017	1047	1086	1095	628
45°	817	835	880	936	954	629
55°	616	637	701	743	742	551
65°	413	438	485	463	446	408
75°	213	243	235	203	193	224
85°	41	49	36	28	26	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.9	1343.9	1343.9	1343.9	1343.9
2.5°	1346.5	1343.0	1335.9	1344.8	1343.9
5°	1341.2	1338.6	1332.3	1341.2	1340.4
7.5°	1332.3	1330.5	1325.2	1334.9	1334.1
10°	1319.8	1317.2	1313.6	1324.3	1325.2
12.5°	1302.9	1302.0	1300.3	1311.8	1310.9
15°	1280.6	1280.6	1282.4	1296.7	1295.8
17.5°	1258.4	1258.4	1262.8	1278.8	1279.7
20°	1230.7	1232.5	1238.7	1258.4	1260.1
22.5°	1199.5	1201.3	1212.0	1236.9	1241.4
25°	1165.6	1171.9	1184.4	1210.2	1215.5
27.5°	1134.5	1135.3	1154.1	1182.6	1189.7
30°	1089.9	1102.4	1119.3	1152.3	1159.4
32.5°	1046.2	1058.7	1084.5	1120.2	1130.0
35°	1007.0	1016.8	1047.1	1086.3	1095.3
37.5°	958.0	974.0	1009.7	1050.7	1063.1
40°	912.6	926.8	965.1	1011.5	1027.5
42.5°	865.4	881.4	925.0	975.0	990.9
45°	817.2	835.0	880.5	935.8	953.5
47.5°	764.7	786.9	838.6	894.7	910.8
50°	713.8	737.0	792.2	851.1	867.1
52.5°	667.5	688.0	748.6	802.9	810.1
55°	615.8	637.2	701.4	743.3	741.5
57.5°	564.1	588.1	652.4	678.2	671.1
60°	515.9	538.3	602.4	607.8	592.6
62.5°	462.6	488.4	542.7	534.7	515.9
65°	412.6	437.6	484.8	462.6	445.6
67.5°	361.9	388.5	422.4	389.4	369.8
70°	311.9	344.0	356.4	320.8	304.8
72.5°	261.2	295.0	294.1	260.2	246.8
75°	213.0	243.3	235.3	203.2	193.4
77.5°	162.2	192.5	177.4	153.2	144.4
80°	115.0	143.4	123.9	105.2	98.9
82.5°	78.5	95.4	77.5	61.5	58.8
85°	41.0	49.0	35.6	27.6	25.8
87.5°	15.1	14.2	12.4	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)