

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P22137

Luminaire Tested: **2GC-LD1-34-A-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P22137
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-LD1-34-A-UNV-L835-CD1-U
Description: METALUX COMMERCIAL 2x2 LED TROFFER WITH A12 LENS
Light Source: 3500K LED
Ballast/Driver: -
LEDINTA2000C24D0

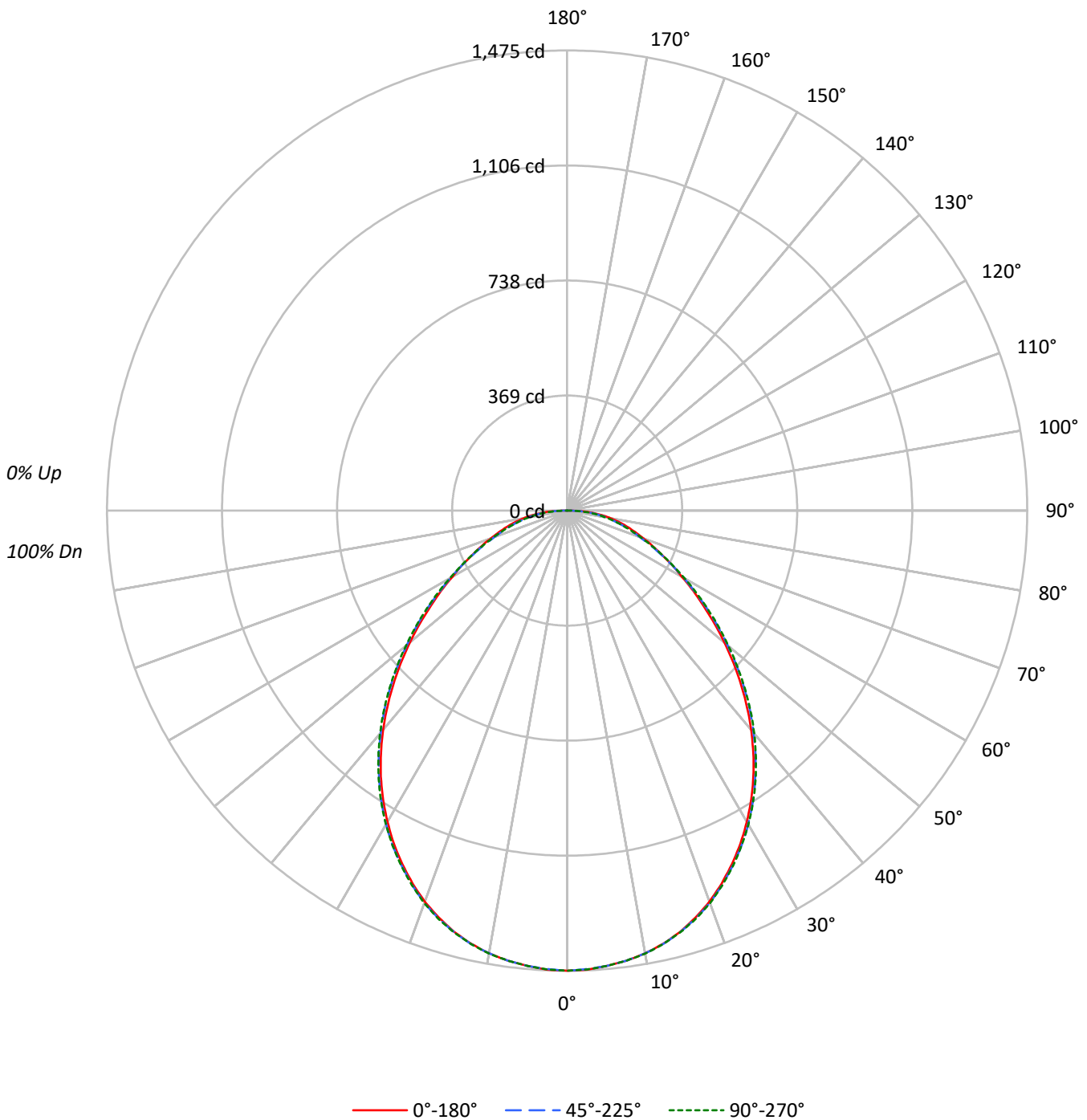
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.8 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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

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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3969	3969	3969
5°	3957	3957	3957
10°	3938	3938	3940
15°	3895	3897	3900
20°	3820	3832	3834
25°	3711	3729	3732
30°	3580	3608	3611
35°	3420	3453	3459
40°	3225	3267	3277
45°	2999	3052	3064
50°	2755	2809	2826
55°	2505	2562	2580
60°	2287	2320	2341
65°	2133	2108	2139
70°	2046	1951	1983
75°	2069	1903	1903
80°	2201	1968	1922
85°	2470	2192	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	4.0
10°-20°	394.0	11.3
20°-30°	577.2	16.6
30°-40°	654.8	18.8
40°-50°	616.0	17.7
50°-60°	487.8	14.0
60°-70°	332.5	9.6
70°-80°	199.1	5.7
80°-90°	76.2	2.2
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°	1110.4	31.9
0°-40°	1765.1	50.8
0°-60°	2869.0	82.5
0°-90°	3476.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1465	1465	1465	1465	1465	139
15°	1398	1398	1399	1400	1400	394
25°	1250	1252	1256	1257	1257	575
35°	1041	1045	1051	1053	1053	650
45°	788	794	802	805	805	608
55°	534	539	546	549	550	480
65°	335	333	331	333	336	335
75°	199	193	183	182	183	211
85°	80	80	71	67	68	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475	1475	1475	1475	1475
2.5°	1473	1472	1471	1472	1472
5°	1465	1465	1465	1465	1465
7.5°	1455	1455	1455	1455	1455
10°	1441	1440	1441	1441	1442
12.5°	1422	1422	1423	1423	1423
15°	1398	1398	1399	1400	1400
17.5°	1368	1369	1371	1372	1372
20°	1334	1335	1338	1339	1339
22.5°	1294	1295	1299	1300	1300
25°	1250	1252	1256	1257	1257
27.5°	1203	1207	1211	1211	1211
30°	1152	1155	1161	1162	1162
32.5°	1098	1102	1108	1109	1109
35°	1041	1045	1051	1053	1053
37.5°	980	985	992	994	994
40°	918	922	930	933	933
42.5°	853	859	867	870	870
45°	788	794	802	805	805
47.5°	723	728	737	740	740
50°	658	663	671	674	675
52.5°	595	599	608	611	612
55°	534	539	546	549	550
57.5°	480	481	486	489	491
60°	425	426	431	433	435
62.5°	379	377	379	381	383
65°	335	333	331	333	336
67.5°	296	292	287	289	292
70°	260	256	248	250	252
72.5°	228	223	214	214	216
75°	199	193	183	182	183
77.5°	171	163	155	152	153
80°	142	136	127	123	124
82.5°	113	109	100	96	96
85°	80	80	71	67	68
87.5°	43	44	39	37	36
90°	0	0	0	0	0

(END OF REPORT)