

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: P22322

Luminaire Tested: **2GC-LD1-57-A-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P22322
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-LD1-57-A-UNV-L835-CD1-U
Description: METALUX 2X4 LED HIGH LUMEN OUTPUT TROFFER WITH A12 LENS DOOR.
Light Source: 3500K SMT LEDS
Ballast/Driver: -
XI05C200V054XPT1

Summary

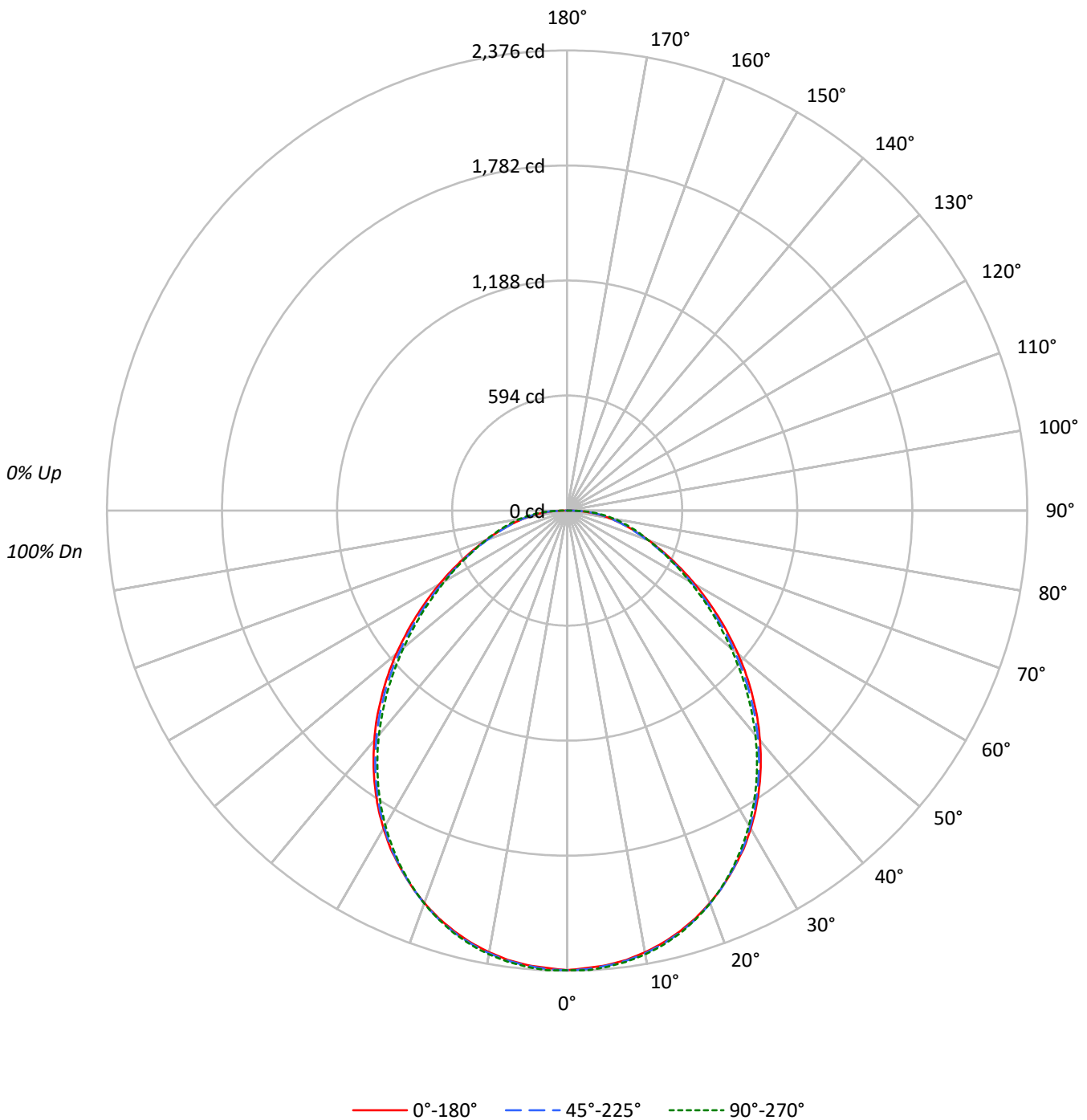
Lumens per Lamp: N/A
Luminaire Lumens: 5790.7 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.28
Luminous Opening: Rectangular (W 1.77' x L: 3.77' x H: 0')
CIE Type: Direct

Input Watts (W): 54.3
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3825	3825	3825
5°	3812	3817	3827
10°	3791	3799	3809
15°	3753	3763	3770
20°	3698	3704	3704
25°	3623	3619	3611
30°	3529	3516	3496
35°	3408	3383	3353
40°	3260	3224	3182
45°	3087	3037	2982
50°	2889	2826	2764
55°	2673	2605	2549
60°	2460	2386	2347
65°	2258	2197	2189
70°	2102	2045	2102
75°	2018	1987	2136
80°	2042	2070	2302
85°	2275	2386	2682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	3.9
10°-20°	635.2	11.0
20°-30°	936.2	16.2
30°-40°	1073.3	18.5
40°-50°	1026.3	17.7
50°-60°	831.6	14.4
60°-70°	578.3	10.0
70°-80°	348.3	6.0
80°-90°	137.4	2.4
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°	1795.6	31.0
0°-40°	2868.8	49.5
0°-60°	4726.7	81.6
0°-90°	5790.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5790.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2373	2373	2373	2373	2373	
5°	2356	2358	2359	2364	2365	224
15°	2249	2252	2255	2259	2259	634
25°	2037	2038	2035	2033	2030	938
35°	1732	1728	1719	1709	1704	1082
45°	1354	1347	1332	1315	1308	1044
55°	951	943	927	911	907	852
65°	592	586	576	574	574	590
75°	324	321	319	334	343	345
85°	123	120	129	143	145	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373	2373	2373	2373	2373
2.5°	2364	2368	2370	2374	2376
5°	2356	2358	2359	2364	2365
7.5°	2340	2342	2344	2349	2349
10°	2316	2319	2321	2326	2327
12.5°	2286	2288	2291	2296	2297
15°	2249	2252	2255	2259	2259
17.5°	2206	2208	2211	2213	2212
20°	2156	2157	2159	2160	2159
22.5°	2100	2101	2100	2101	2097
25°	2037	2038	2035	2033	2030
27.5°	1971	1967	1966	1961	1956
30°	1896	1892	1889	1883	1878
32.5°	1817	1814	1807	1799	1793
35°	1732	1728	1719	1709	1704
37.5°	1642	1639	1628	1616	1610
40°	1549	1545	1532	1519	1512
42.5°	1454	1448	1434	1418	1411
45°	1354	1347	1332	1315	1308
47.5°	1254	1246	1230	1212	1204
50°	1152	1144	1127	1109	1102
52.5°	1050	1043	1026	1009	1003
55°	951	943	927	911	907
57.5°	855	849	832	820	815
60°	763	756	740	730	728
62.5°	675	669	656	648	651
65°	592	586	576	574	574
67.5°	516	510	502	506	506
70°	446	441	434	443	446
72.5°	382	378	374	386	394
75°	324	321	319	334	343
77.5°	270	269	270	286	295
80°	220	219	223	239	248
82.5°	171	169	176	192	198
85°	123	120	129	143	145
87.5°	69	70	76	89	89
90°	0	0	0	0	0

(END OF REPORT)