

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: 230P100

Luminaire Tested: **NY-2GR8-332A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 230P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: NY-2GR8-332A-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL NYC RATED TROFFER WITH ACRYLIC PRISMATIC LENS
Light Source: Three - F32T8/TL735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: UNIVERSAL B332IUNVHP

Summary

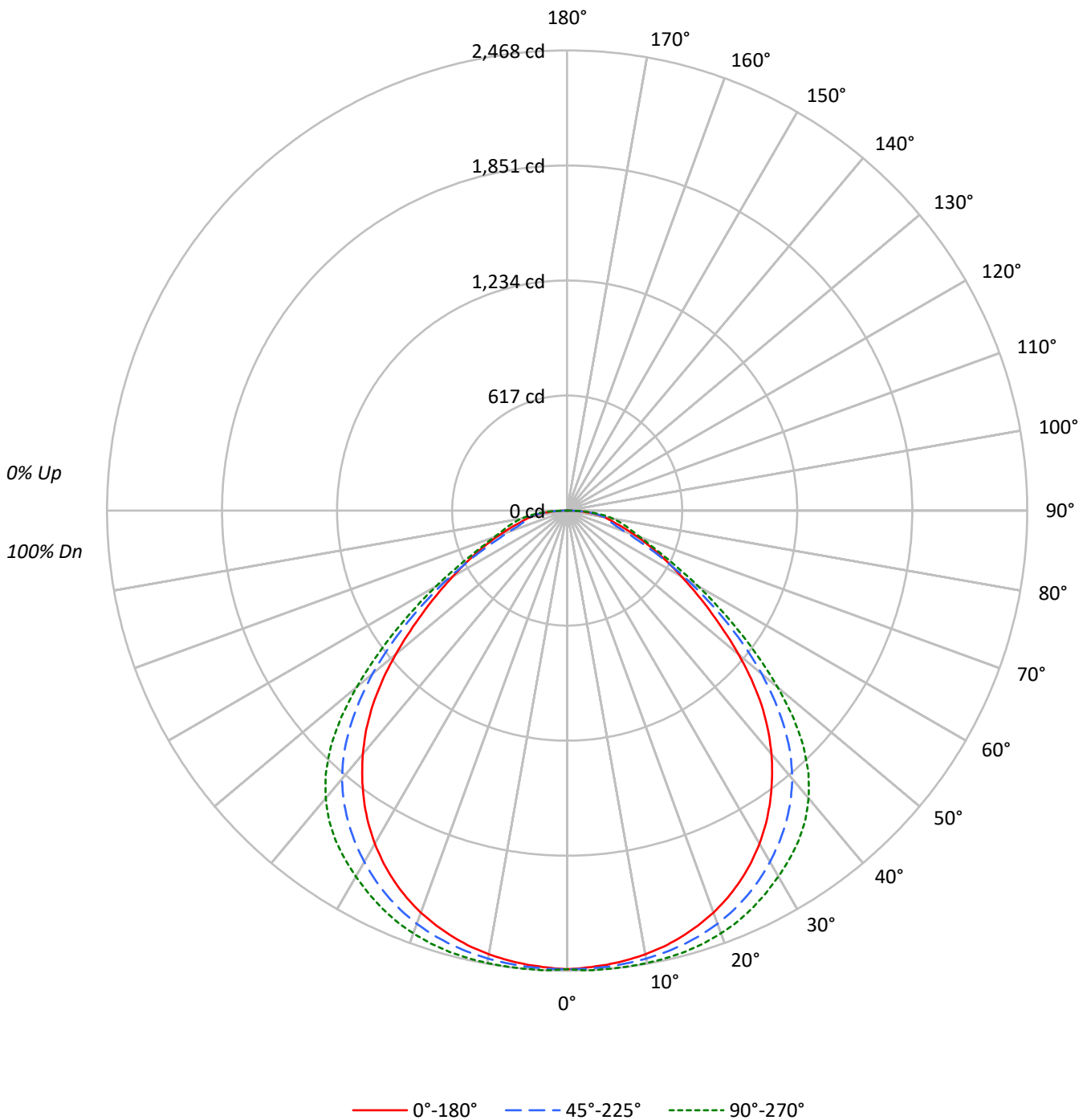
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6381.2 lumens
Efficiency: 76.0%
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.36 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 79.8
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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	78	78	78	76
1	83	80	77	74	81	78	75	73	75	73	70	72	70	68	69	68	66	65
2	76	70	66	61	74	69	64	61	66	63	59	64	61	58	62	59	57	55
3	70	62	57	52	68	61	56	51	59	54	51	57	53	50	55	52	49	47
4	64	56	49	45	63	55	49	44	53	48	44	51	47	43	49	46	42	41
5	59	50	43	39	58	49	43	38	48	42	38	46	41	38	45	41	37	36
6	55	45	39	34	54	45	38	34	43	38	34	42	37	33	41	36	33	31
7	51	41	35	30	50	40	34	30	39	34	30	38	33	30	37	33	29	28
8	48	38	31	27	46	37	31	27	36	31	27	35	30	27	34	30	26	25
9	44	35	28	24	43	34	28	24	33	28	24	32	28	24	32	27	24	23
10	42	32	26	22	41	31	26	22	31	26	22	30	25	22	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3870	3870	3870
5°	3862	3879	3898
10°	3860	3898	3937
15°	3856	3924	3989
20°	3843	3948	4040
25°	3809	3960	4083
30°	3748	3953	4117
35°	3649	3928	4155
40°	3502	3859	4139
45°	3280	3671	3992
50°	2937	3334	3608
55°	2557	2867	3078
60°	2234	2344	2552
65°	1984	1850	2107
70°	1789	1500	1914
75°	1672	1477	1988
80°	1821	1848	2274
85°	1986	2202	2581



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	233.9	3.7	2.8	0°	2460	2460	2460	2460	2460	
10°-20°	680.3	10.7	8.1	5°	2445	2448	2456	2462	2468	232
20°-30°	1048.9	16.4	12.5	15°	2367	2379	2409	2436	2449	668
30°-40°	1271.9	19.9	15.1	25°	2194	2223	2281	2330	2352	1010
40°-50°	1254.8	19.7	14.9	35°	1900	1946	2045	2125	2163	1185
50°-60°	923.6	14.5	11.0	45°	1474	1529	1650	1748	1794	1130
60°-70°	531.7	8.3	6.3	55°	932	965	1045	1078	1122	840
70°-80°	305.5	4.8	3.6	65°	533	491	497	557	566	533
80°-90°	130.7	2.0	1.6	75°	275	272	243	323	327	299
90°-100°	0.0	0.0	0.0	85°	110	115	122	143	143	108
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	8
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1963.0	30.8	23.4	165°	0	0	0	0	0	0
0°-40°	3234.9	50.7	38.5	175°	0	0	0	0	0	0
0°-60°	5413.3	84.8	64.4	180°	0	0	0	0	0	0
0°-90°	6381.2	100.0	76.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	6381.2	100.0	76.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2460	2460	2460	2460	2460
2.5°	2453	2454	2459	2463	2468
5°	2445	2448	2456	2462	2468
7.5°	2433	2437	2449	2460	2467
10°	2416	2422	2440	2456	2464
12.5°	2395	2403	2427	2447	2458
15°	2367	2379	2409	2436	2449
17.5°	2334	2349	2387	2419	2434
20°	2295	2313	2358	2396	2413
22.5°	2248	2271	2323	2367	2387
25°	2194	2223	2281	2330	2352
27.5°	2133	2166	2232	2287	2311
30°	2063	2101	2176	2238	2266
32.5°	1986	2028	2114	2184	2218
35°	1900	1946	2045	2125	2163
37.5°	1806	1858	1968	2057	2097
40°	1705	1761	1879	1975	2015
42.5°	1595	1653	1773	1873	1916
45°	1474	1529	1650	1748	1794
47.5°	1341	1393	1511	1598	1645
50°	1200	1252	1362	1431	1474
52.5°	1061	1109	1204	1253	1296
55°	932	965	1045	1078	1122
57.5°	814	823	890	922	959
60°	710	694	745	784	811
62.5°	616	585	613	660	677
65°	533	491	497	557	566
67.5°	458	417	400	479	481
70°	389	358	326	418	416
72.5°	327	311	275	368	366
75°	275	272	243	323	327
77.5°	236	235	225	281	291
80°	201	198	204	240	251
82.5°	159	158	171	196	204
85°	110	115	122	143	143
87.5°	58	64	66	77	75
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)