

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: 230P101

Luminaire Tested: **NY-2GR8-232A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 230P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: NY-2GR8-232A-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL NYC RATED TROFFER WITH ACRYLIC PRISMATIC LENS
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: UNIVERSAL B232IUNVHP

Summary

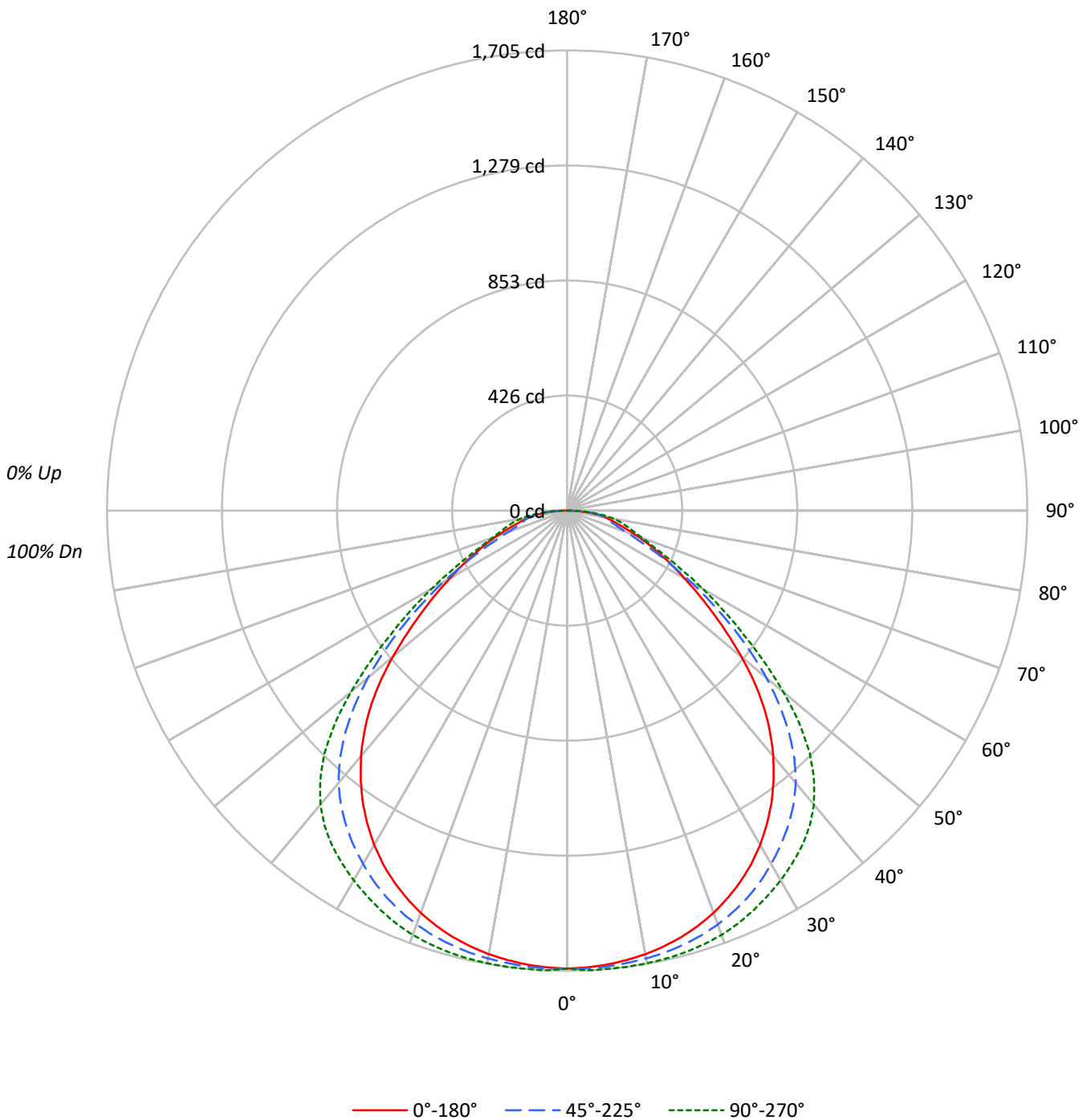
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4467.8 lumens
Efficiency: 79.8%
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.4
Luminous Opening: Rectangular (W 1.8' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80																												
1	87	84	81	78	85	82	79	76	79	76	74	75	74	72	73	71	70	68																												
2	80	74	69	64	78	72	68	64	70	66	62	67	64	61	65	62	59	58																												
3	73	65	59	54	71	64	58	54	62	57	53	60	56	52	58	54	51	49																												
4	67	58	52	47	66	57	51	46	55	50	46	54	49	45	52	48	44	43																												
5	62	52	46	40	61	52	45	40	50	44	40	48	43	39	47	42	39	37																												
6	58	47	40	36	56	47	40	35	45	39	35	44	39	35	43	38	34	33																												
7	53	43	36	32	52	42	36	31	41	35	31	40	35	31	39	34	31	29																												
8	50	39	33	28	49	39	32	28	38	32	28	37	32	28	36	31	28	26																												
9	47	36	30	25	45	36	30	25	35	29	25	34	29	25	33	28	25	24																												
10	44	33	27	23	43	33	27	23	32	27	23	31	26	23	31	26	23	21																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2670	2670	2670
5°	2668	2679	2693
10°	2666	2692	2721
15°	2665	2712	2759
20°	2656	2733	2801
25°	2635	2746	2837
30°	2598	2747	2874
35°	2535	2741	2914
40°	2440	2707	2921
45°	2294	2586	2828
50°	2063	2360	2560
55°	1802	2030	2183
60°	1577	1661	1828
65°	1407	1314	1508
70°	1274	1067	1352
75°	1191	1046	1404
80°	1296	1305	1595
85°	1390	1534	1751



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	161.4	3.6	2.9	0°	1697	1697	1697	1697	1697	
10°-20°	470.0	10.5	8.4	5°	1689	1691	1696	1695	1705	161
20°-30°	727.1	16.3	13.0	15°	1636	1644	1665	1680	1694	462
30°-40°	887.5	19.9	15.8	25°	1518	1539	1582	1614	1634	699
40°-50°	883.2	19.8	15.8	35°	1320	1353	1427	1486	1517	823
50°-60°	653.8	14.6	11.7	45°	1031	1072	1162	1234	1271	790
60°-70°	377.7	8.5	6.7	55°	657	683	740	763	796	592
70°-80°	215.9	4.8	3.9	65°	378	348	353	397	405	378
80°-90°	91.0	2.0	1.6	75°	196	192	172	228	231	213
90°-100°	0.0	0.0	0.0	85°	77	81	85	98	97	77
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	6
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°	1358.5	30.4	24.3	165°	0	0	0	0	0	0
0°-40°	2246.0	50.3	40.1	175°	0	0	0	0	0	0
0°-60°	3783.1	84.7	67.6	180°	0	0	0	0	0	0
0°-90°	4467.8	100.0	79.8							
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°	4467.8	100.0	79.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697	1697	1697	1697	1697
2.5°	1694	1695	1698	1696	1705
5°	1689	1691	1696	1695	1705
7.5°	1680	1683	1691	1694	1705
10°	1669	1673	1685	1692	1703
12.5°	1654	1660	1677	1687	1700
15°	1636	1644	1665	1680	1694
17.5°	1613	1624	1651	1669	1685
20°	1586	1600	1632	1656	1673
22.5°	1554	1572	1609	1637	1656
25°	1518	1539	1582	1614	1634
27.5°	1477	1501	1550	1587	1609
30°	1430	1458	1512	1556	1582
32.5°	1377	1408	1472	1523	1551
35°	1320	1353	1427	1486	1517
37.5°	1256	1294	1377	1442	1475
40°	1188	1229	1318	1388	1422
42.5°	1113	1156	1246	1319	1354
45°	1031	1072	1162	1234	1271
47.5°	941	979	1067	1131	1167
50°	843	882	964	1012	1046
52.5°	747	784	853	886	920
55°	657	683	740	763	796
57.5°	575	583	630	653	684
60°	501	492	528	558	581
62.5°	436	413	435	471	485
65°	378	348	353	397	405
67.5°	326	295	285	340	342
70°	277	253	232	296	294
72.5°	233	220	195	259	259
75°	196	192	172	228	231
77.5°	168	166	159	197	204
80°	143	140	144	168	176
82.5°	113	112	120	136	141
85°	77	81	85	98	97
87.5°	41	44	45	51	50
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)