

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: 107P148

Luminaire Tested: **NY-2GC8-332A187-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 107P148  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: NY-2GC8-332A187-UNV-EB81  
Description: METALUX 2' X 4' SPECIFICATION GRADE NYC RATED RECESSED FLUORESCENT  
TROFFER WITH  
HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, 0.187"  
NOM. THK  
Light Source: Three - FO32/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: UNIVERSAL B332IUNVHP-A

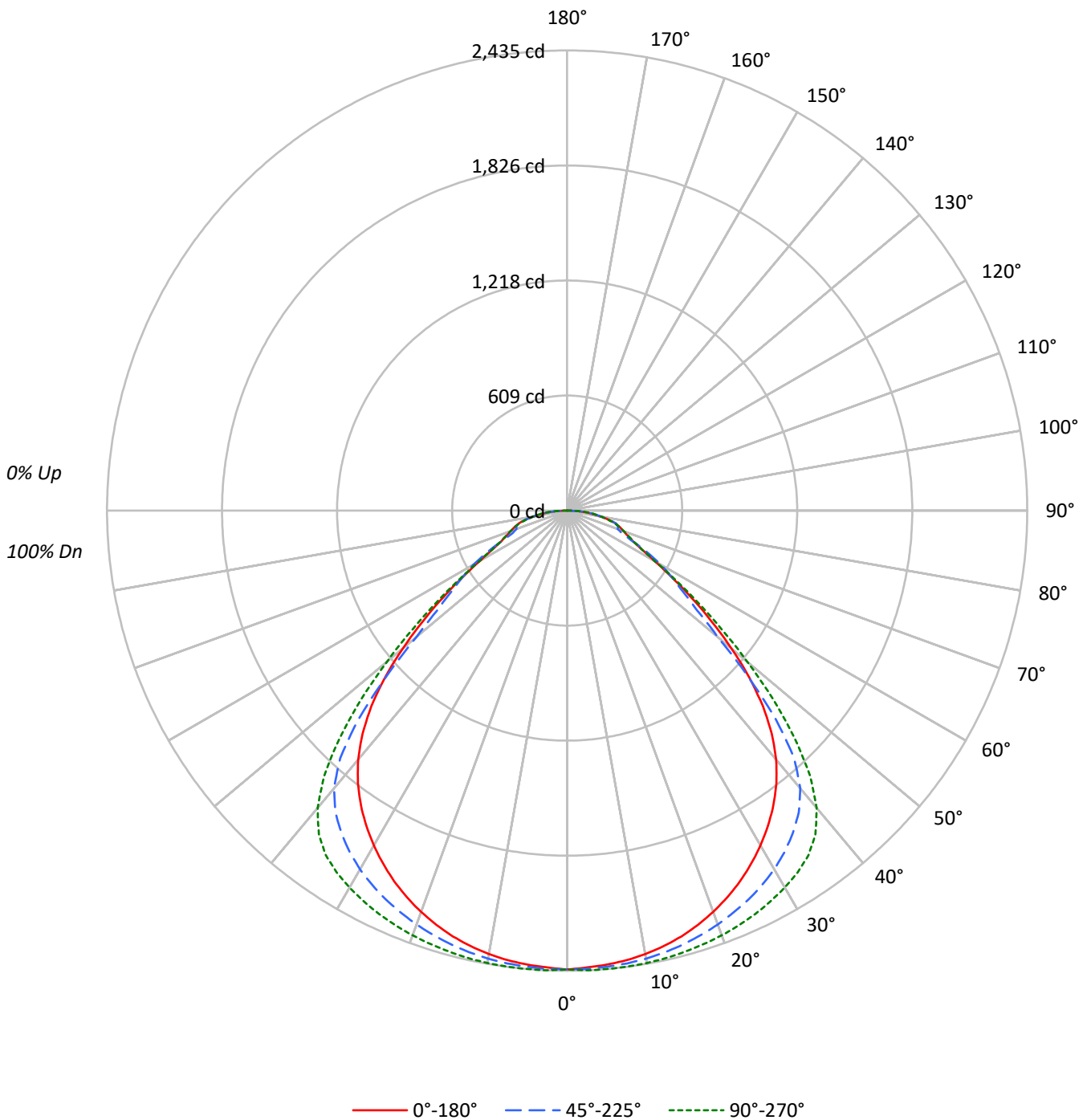
**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 5928.2 lumens  
Efficiency: 70.6%  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.41 / 1.37  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	71
1	78	75	72	69	76	73	70	68	70	68	66	67	66	64	65	63	62	61
2	71	66	62	58	70	65	61	57	62	59	56	60	57	55	58	56	54	52
3	66	59	54	49	64	58	53	49	56	52	48	54	50	47	52	49	47	45
4	61	53	47	43	59	52	47	42	50	46	42	49	45	41	47	44	41	39
5	56	48	42	37	55	47	41	37	45	41	37	44	40	36	43	39	36	35
6	52	43	37	33	51	43	37	33	41	36	33	40	36	32	39	35	32	31
7	48	39	34	29	47	39	33	29	38	33	29	37	32	29	36	32	29	27
8	45	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	25
9	42	33	28	24	41	33	27	24	32	27	24	31	27	24	31	26	23	22
10	40	31	25	22	39	30	25	22	30	25	22	29	25	22	28	24	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3832	3832	3832
5°	3821	3839	3858
10°	3819	3858	3896
15°	3812	3882	3948
20°	3796	3915	4018
25°	3770	3955	4101
30°	3729	3995	4197
35°	3667	4013	4289
40°	3546	3954	4232
45°	3272	3489	3801
50°	2787	2554	3057
55°	2204	2056	2298
60°	1682	1806	1705
65°	1438	1415	1449
70°	1463	1315	1472
75°	1616	1646	1586
80°	1627	1654	1645
85°	1720	1738	1956



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	230.8	3.9	2.7	0°	2428	2428	2428	2428	2428	
10°-20°	671.3	11.3	8.0	5°	2412	2416	2423	2429	2435	229
20°-30°	1045.1	17.6	12.4	15°	2333	2346	2376	2403	2416	658
30°-40°	1292.2	21.8	15.4	25°	2165	2200	2271	2332	2355	997
40°-50°	1185.9	20.0	14.1	35°	1903	1965	2083	2187	2226	1187
50°-60°	719.6	12.1	8.6	45°	1466	1486	1563	1631	1703	1118
60°-70°	411.9	6.9	4.9	55°	801	760	747	817	835	724
70°-80°	266.7	4.5	3.2	65°	385	428	379	421	388	395
80°-90°	104.8	1.8	1.2	75°	265	252	270	251	260	272
90°-100°	0.0	0.0	0.0	85°	95	98	96	100	108	93
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	7
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°	1947.2	32.8	23.2	165°	0	0	0	0	0	0
0°-40°	3239.4	54.6	38.6	175°	0	0	0	0	0	0
0°-60°	5144.9	86.8	61.2	180°	0	0	0	0	0	0
0°-90°	5928.2	100.0	70.6							
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°	5928.2	100.0	70.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2428	2428	2428	2428	2428
2.5°	2420	2423	2427	2430	2435
5°	2412	2416	2423	2429	2435
7.5°	2400	2405	2417	2427	2434
10°	2383	2390	2407	2422	2431
12.5°	2361	2371	2394	2414	2425
15°	2333	2346	2376	2403	2416
17.5°	2299	2317	2355	2390	2405
20°	2260	2282	2331	2374	2392
22.5°	2215	2243	2302	2355	2375
25°	2165	2200	2271	2332	2355
27.5°	2108	2151	2234	2306	2331
30°	2046	2097	2192	2274	2303
32.5°	1978	2035	2142	2236	2270
35°	1903	1965	2083	2187	2226
37.5°	1819	1881	2013	2115	2158
40°	1721	1779	1919	2007	2054
42.5°	1603	1651	1778	1846	1903
45°	1466	1486	1563	1631	1703
47.5°	1307	1283	1293	1388	1478
50°	1135	1074	1040	1157	1245
52.5°	963	894	864	965	1028
55°	801	760	747	817	835
57.5°	654	658	658	701	671
60°	533	577	572	603	540
62.5°	443	503	474	510	447
65°	385	428	379	421	388
67.5°	346	359	313	349	351
70°	317	308	285	302	319
72.5°	293	278	281	273	291
75°	265	252	270	251	260
77.5°	226	226	228	226	221
80°	179	190	182	189	181
82.5°	134	144	141	145	146
85°	95	98	96	100	108
87.5°	49	50	51	50	58
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)