

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: 230P102

Luminaire Tested: **NY-2GR8-432A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 230P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: NY-2GR8-432A-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL NYC RATED TROFFER WITH ACRYLIC PRISMATIC LENS
Light Source: Four - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: UNIVERSAL B432IUNVHP

Summary

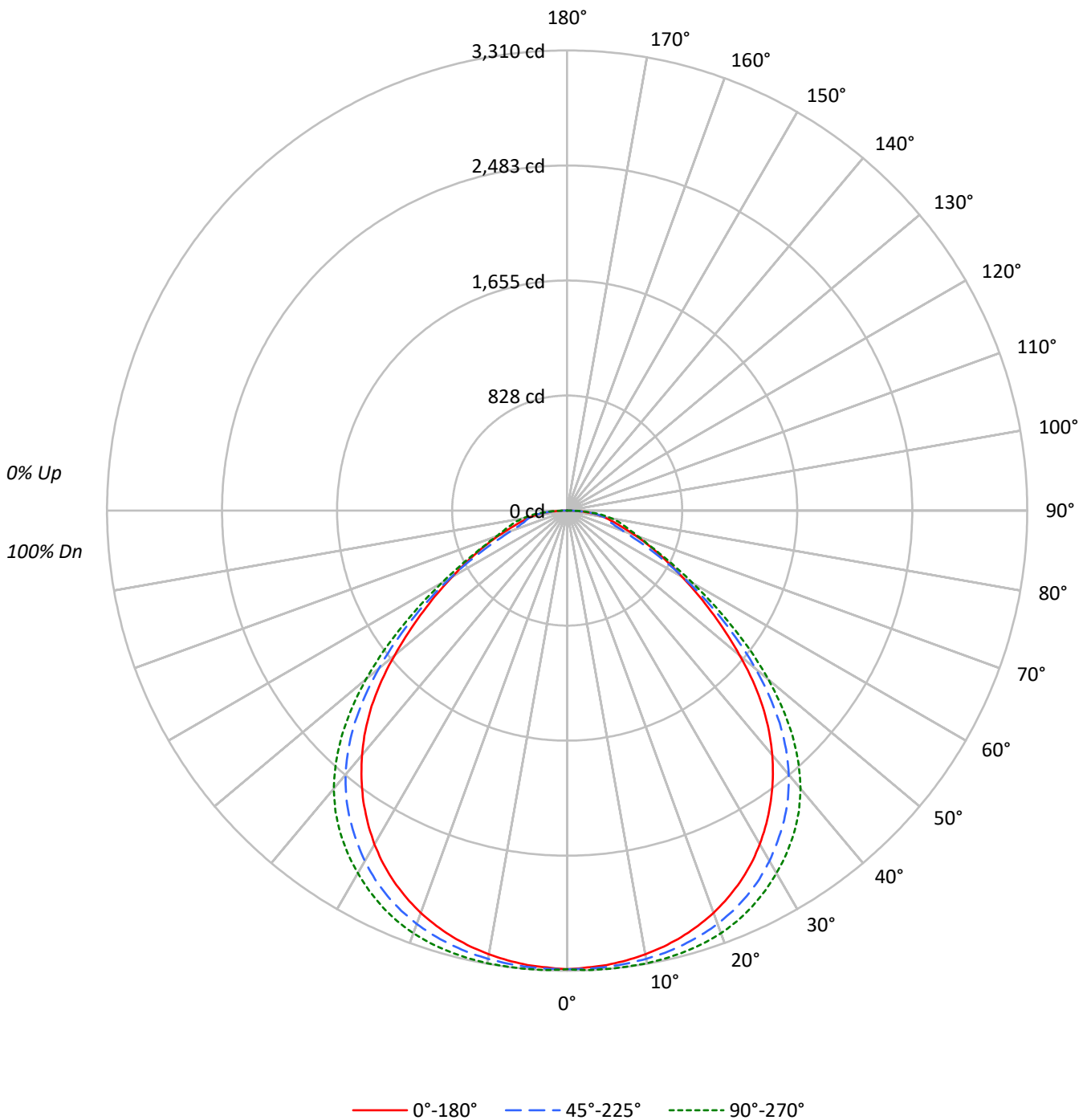
Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 8445.1 lumens
Efficiency: 75.4%
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.34 / 1.37
Luminous Opening: Rectangular (W 1.8' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 111.6
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		80	80	80		77	77	77	75
1	83	79	76	73	81	78	75	72	74	72	70		71	70	68		69	67	66	64
2	76	70	65	61	74	69	64	60	66	62	59		63	60	58		61	59	56	55
3	69	62	56	52	68	61	55	51	59	54	50		57	53	49		55	51	49	47
4	64	55	49	44	62	54	49	44	53	47	43		51	46	43		49	45	42	41
5	59	50	43	39	57	49	43	38	47	42	38		46	41	38		45	40	37	36
6	55	45	39	34	53	44	38	34	43	38	33		42	37	33		41	36	33	31
7	51	41	35	30	49	40	34	30	39	34	30		38	33	30		37	33	29	28
8	47	37	31	27	46	37	31	27	36	31	27		35	30	27		34	30	26	25
9	44	34	28	24	43	34	28	24	33	28	24		32	28	24		32	27	24	23
10	41	32	26	22	41	31	26	22	31	26	22		30	25	22		29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5191	5191	5191
5°	5182	5204	5228
10°	5178	5231	5282
15°	5173	5266	5349
20°	5155	5298	5418
25°	5114	5310	5460
30°	5036	5289	5472
35°	4907	5226	5457
40°	4716	5094	5365
45°	4426	4811	5102
50°	3968	4332	4626
55°	3462	3722	3956
60°	3011	3052	3282
65°	2666	2416	2740
70°	2392	1978	2493
75°	2237	1951	2596
80°	2437	2437	2963
85°	2654	2888	3340



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	313.7	3.7	2.8	0°	3299	3299	3299	3299	3299	
10°-20°	912.5	10.8	8.1	5°	3281	3285	3295	3299	3310	312
20°-30°	1405.0	16.6	12.5	15°	3176	3193	3233	3264	3284	896
30°-40°	1690.1	20.0	15.1	25°	2946	2984	3059	3115	3145	1356
40°-50°	1645.8	19.5	14.7	35°	2555	2614	2721	2800	2841	1594
50°-60°	1207.0	14.3	10.8	45°	1989	2046	2162	2246	2293	1524
60°-70°	697.0	8.3	6.2	55°	1262	1281	1357	1389	1442	1136
70°-80°	402.5	4.8	3.6	65°	716	648	649	726	736	716
80°-90°	171.4	2.0	1.5	75°	368	360	321	423	427	400
90°-100°	0.0	0.0	0.0	85°	147	153	160	185	185	145
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	11
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°	2631.3	31.2	23.5	165°	0	0	0	0	0	0
0°-40°	4321.4	51.2	38.6	175°	0	0	0	0	0	0
0°-60°	7174.2	85.0	64.1	180°	0	0	0	0	0	0
0°-90°	8445.1	100.0	75.4							
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°	8445.1	100.0	75.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3299	3299	3299	3299	3299
2.5°	3290	3294	3299	3300	3308
5°	3281	3285	3295	3299	3310
7.5°	3264	3271	3287	3297	3308
10°	3241	3251	3274	3291	3306
12.5°	3212	3226	3257	3280	3298
15°	3176	3193	3233	3264	3284
17.5°	3132	3154	3202	3241	3264
20°	3079	3106	3164	3210	3236
22.5°	3017	3050	3116	3169	3196
25°	2946	2984	3059	3115	3145
27.5°	2865	2909	2991	3051	3083
30°	2772	2822	2911	2977	3012
32.5°	2668	2723	2819	2894	2933
35°	2555	2614	2721	2800	2841
37.5°	2431	2493	2610	2693	2736
40°	2296	2362	2480	2568	2612
42.5°	2150	2214	2331	2420	2464
45°	1989	2046	2162	2246	2293
47.5°	1811	1864	1972	2050	2100
50°	1621	1671	1770	1835	1890
52.5°	1436	1477	1563	1609	1668
55°	1262	1281	1357	1389	1442
57.5°	1103	1090	1158	1187	1232
60°	957	918	970	1009	1043
62.5°	829	770	798	855	877
65°	716	648	649	726	736
67.5°	613	551	525	625	626
70°	520	473	430	546	542
72.5°	437	411	362	481	478
75°	368	360	321	423	427
77.5°	315	312	297	368	379
80°	269	264	269	313	327
82.5°	213	210	224	255	265
85°	147	153	160	185	185
87.5°	78	85	84	99	96
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)