

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: 107P149

Luminaire Tested: **NY-2GC-332A19/156-UNV-EB82**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 107P149
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: NY-2GC-332A19/156-UNV-EB82
Description: METALUX 2' X 4' SPECIFICATION GRADE NYC RATED RECESSED FLUORESCENT
TROFFER WITH
HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, TYPE
#19, 0.156" THK
Light Source: Three - F032/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: UNIVERSAL B332IUNVHP-A

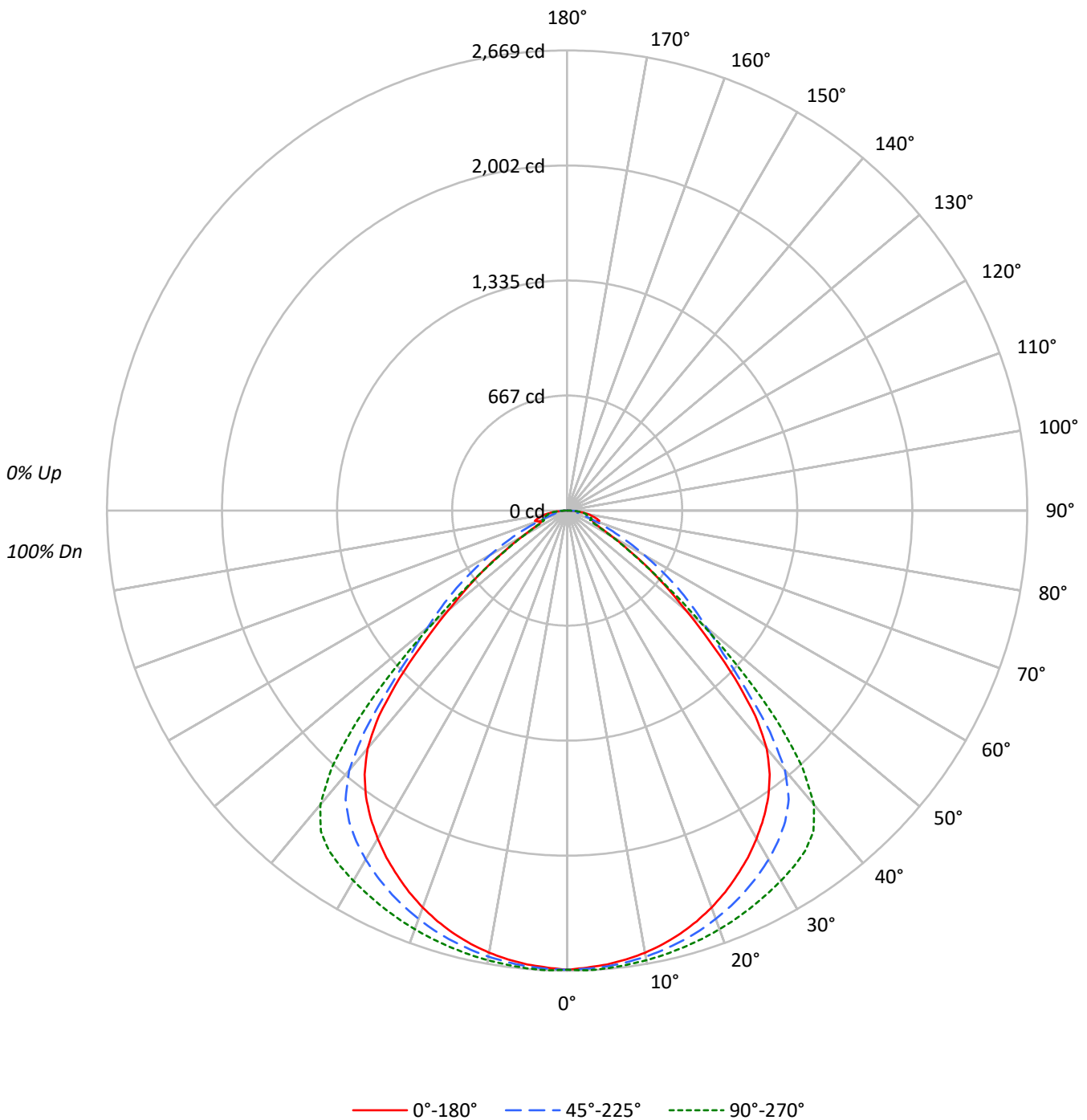
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5853.5 lumens
Efficiency: 69.7%
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.39 / 1.32
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_{in}): 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	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	70
1	77	74	72	70	75	73	71	68	70	68	66	67	66	64	65	64	62	61
2	71	66	62	59	70	65	61	58	63	60	57	61	58	56	59	56	55	53
3	66	60	55	51	64	59	54	50	57	53	50	55	51	49	53	50	48	47
4	61	54	48	44	60	53	48	44	51	47	43	50	46	43	48	45	42	41
5	57	49	43	39	55	48	43	39	46	42	38	45	41	38	44	40	38	36
6	53	44	39	35	51	44	38	34	42	38	34	41	37	34	40	37	34	32
7	49	40	35	31	48	40	35	31	39	34	31	38	34	30	37	33	30	29
8	46	37	32	28	45	37	31	28	36	31	28	35	31	27	34	30	27	26
9	43	34	29	25	42	34	29	25	33	28	25	32	28	25	32	28	25	24
10	40	32	26	23	39	31	26	23	31	26	23	30	26	23	29	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4203	4203	4203
5°	4187	4205	4222
10°	4173	4210	4244
15°	4150	4221	4283
20°	4115	4233	4340
25°	4065	4247	4416
30°	4004	4259	4518
35°	3917	4247	4640
40°	3709	4051	4588
45°	3069	3270	3837
50°	2203	2595	2492
55°	1538	2155	1508
60°	944	1632	915
65°	639	1154	605
70°	835	720	701
75°	1073	494	793
80°	1163	545	1000
85°	1032	1177	1159



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	252.4	4.3	3.0	0°	2663	2663	2663	2663	2663	
10°-20°	729.2	12.5	8.7	5°	2643	2646	2654	2659	2665	251
20°-30°	1124.0	19.2	13.4	15°	2540	2553	2583	2609	2621	716
30°-40°	1376.1	23.5	16.4	25°	2334	2366	2439	2507	2536	1075
40°-50°	1176.3	20.1	14.0	35°	2033	2082	2204	2344	2408	1264
50°-60°	641.6	11.0	7.6	45°	1375	1476	1465	1664	1719	1047
60°-70°	309.5	5.3	3.7	55°	559	715	783	765	548	508
70°-80°	175.5	3.0	2.1	65°	171	339	309	382	162	195
80°-90°	69.0	1.2	0.8	75°	176	209	81	219	130	178
90°-100°	0.0	0.0	0.0	85°	57	77	65	70	64	62
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	2105.5	36.0	25.1	165°	0	0	0	0	0	0
0°-40°	3481.6	59.5	41.4	175°	0	0	0	0	0	0
0°-60°	5299.5	90.5	63.1	180°	0	0	0	0	0	0
0°-90°	5853.5	100.0	69.7							
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°	5853.5	100.0	69.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2663	2663	2663	2663	2663
2.5°	2653	2656	2660	2664	2669
5°	2643	2646	2654	2659	2665
7.5°	2626	2631	2642	2651	2657
10°	2604	2611	2627	2640	2648
12.5°	2575	2585	2607	2626	2636
15°	2540	2553	2583	2609	2621
17.5°	2498	2515	2555	2588	2604
20°	2450	2471	2520	2564	2584
22.5°	2395	2421	2482	2537	2562
25°	2334	2366	2439	2507	2536
27.5°	2269	2306	2391	2474	2508
30°	2197	2239	2337	2437	2479
32.5°	2119	2165	2276	2395	2447
35°	2033	2082	2204	2344	2408
37.5°	1930	1984	2111	2275	2346
40°	1800	1861	1966	2153	2227
42.5°	1616	1691	1741	1945	2019
45°	1375	1476	1465	1664	1719
47.5°	1118	1259	1226	1360	1355
50°	897	1063	1057	1112	1015
52.5°	718	881	917	919	749
55°	559	715	783	765	548
57.5°	413	573	645	640	400
60°	299	465	517	538	290
62.5°	217	389	407	453	212
65°	171	339	309	382	162
67.5°	161	302	224	327	145
70°	181	268	156	287	152
72.5°	196	235	111	253	148
75°	176	209	81	219	130
77.5°	149	183	64	179	117
80°	128	142	60	139	110
82.5°	96	104	69	101	93
85°	57	77	65	70	64
87.5°	24	40	38	37	33
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)