

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: 104P204

Luminaire Tested: **2EP3GX-332S36M/I-2BC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P204
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S36M/I-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with
a 3" deep 18 cell specular low iridescent
parabolic louver.
Light Source: Three-FO32/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH

Summary

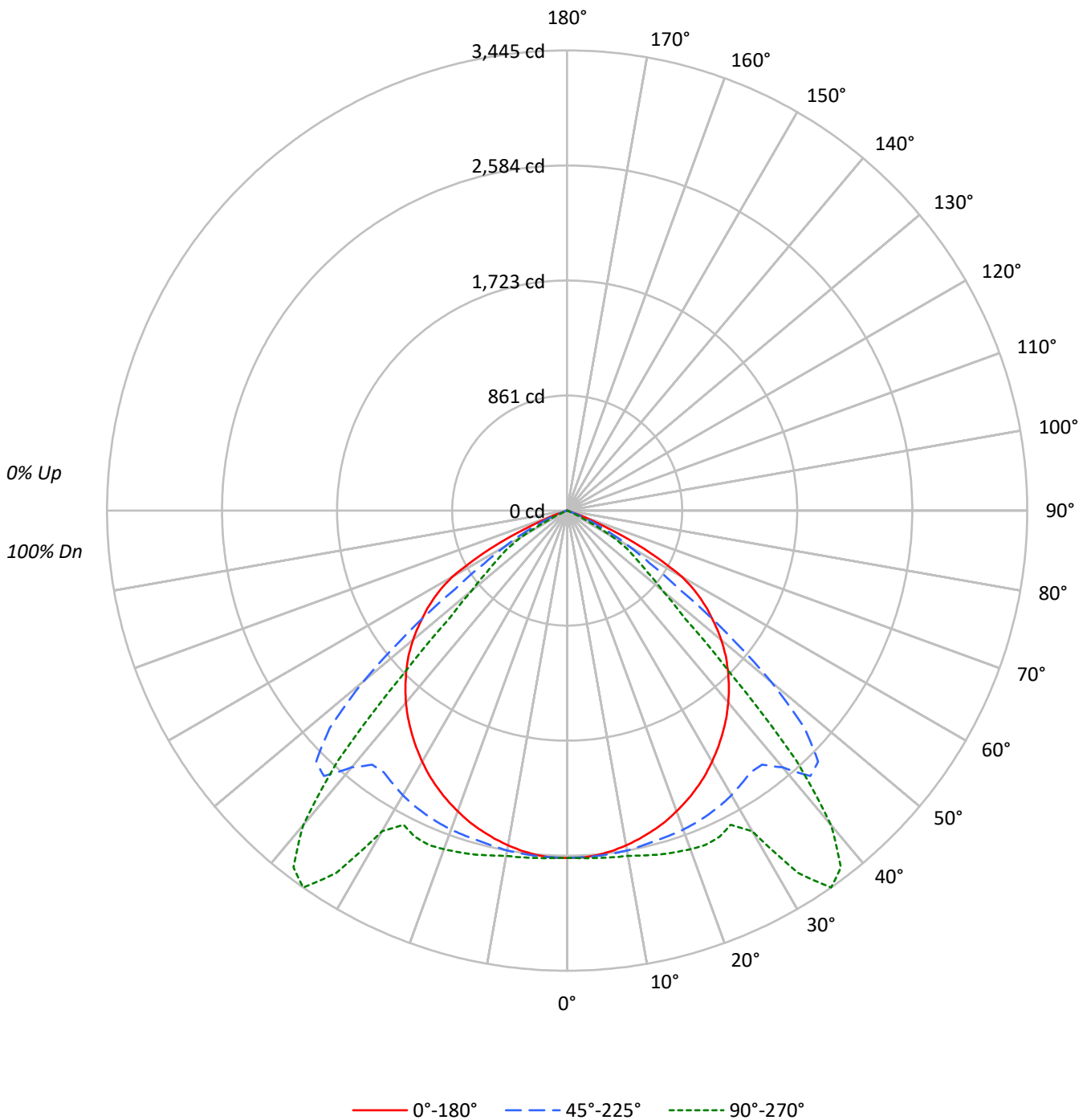
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6602.6 lumens
Efficiency: 77.2%
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.71 / 1.58
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 89.8
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										
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	0														
RCR																																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77						77														
1	86	83	81	78	84	81	79	77	78	76	75	75	74	72	73	71	70	69						69														
2	80	75	70	67	78	73	69	66	70	67	64	68	65	63	66	64	62	60						60														
3	74	67	61	57	72	66	61	57	63	59	56	61	58	55	59	56	54	52						52														
4	68	60	54	49	66	59	53	49	57	52	48	55	51	48	54	50	47	46						46														
5	63	54	48	43	61	53	47	43	51	46	42	50	46	42	49	45	42	40						40														
6	58	49	42	38	57	48	42	38	47	41	37	45	41	37	44	40	37	35						35														
7	54	44	38	34	53	44	38	34	42	37	33	41	37	33	40	36	33	31						31														
8	50	40	34	30	49	40	34	30	39	34	30	38	33	30	37	33	29	28						28														
9	47	37	31	27	46	37	31	27	36	30	27	35	30	27	34	30	27	25						25														
10	44	34	28	24	43	34	28	24	33	28	24	32	28	24	32	27	24	23						23														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4284	4284	4284
5°	4282	4294	4319
10°	4258	4323	4392
15°	4231	4364	4548
20°	4200	4457	4731
25°	4169	4562	4900
30°	4129	4681	5272
35°	4085	4814	6930
40°	4037	5397	6616
45°	3968	6191	4059
50°	3861	5117	2399
55°	3671	2947	1818
60°	3282	1783	1289
65°	1985	873	191
70°	366	154	43
75°	57	45	25
80°	38	28	19
85°	19	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	247.4	3.7	2.9	0°	2600	2600	2600	2600	2600	
10°-20°	726.4	11.0	8.5	5°	2589	2586	2596	2605	2611	246
20°-30°	1153.0	17.5	13.5	15°	2480	2500	2558	2632	2666	700
30°-40°	1604.3	24.3	18.8	25°	2293	2347	2509	2645	2695	1057
40°-50°	1598.3	24.2	18.7	35°	2031	2145	2393	3148	3445	1271
50°-60°	961.4	14.6	11.2	45°	1703	1891	2657	2187	1742	1312
60°-70°	299.6	4.5	3.5	55°	1278	1582	1026	660	633	1133
70°-80°	11.4	0.2	0.1	65°	509	452	224	96	49	501
80°-90°	0.8	0.0	0.0	75°	9	9	7	5	4	19
90°-100°	0.0	0.0	0.0	85°	1	0	0	0	0	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	2126.8	32.2	24.9	165°	0	0	0	0	0	0
0°-40°	3731.1	56.5	43.6	175°	0	0	0	0	0	0
0°-60°	6290.8	95.3	73.6	180°	0	0	0	0	0	0
0°-90°	6602.6	100.0	77.2							
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°	6602.6	100.0	77.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2600	2600	2600	2600	2600
2.5°	2600	2595	2598	2601	2604
5°	2589	2586	2596	2605	2611
7.5°	2570	2571	2591	2609	2618
10°	2545	2552	2584	2611	2625
12.5°	2515	2528	2571	2618	2644
15°	2480	2500	2558	2632	2666
17.5°	2442	2468	2551	2641	2682
20°	2395	2431	2542	2648	2698
22.5°	2347	2391	2527	2652	2709
25°	2293	2347	2509	2645	2695
27.5°	2235	2301	2488	2616	2652
30°	2170	2254	2460	2582	2771
32.5°	2102	2201	2426	2752	3215
35°	2031	2145	2393	3148	3445
37.5°	1957	2085	2398	3264	3366
40°	1877	2025	2509	3122	3076
42.5°	1792	1960	2696	2781	2543
45°	1703	1891	2657	2187	1742
47.5°	1610	1826	2412	1474	1199
50°	1506	1764	1996	1054	936
52.5°	1393	1684	1499	823	758
55°	1278	1582	1026	660	633
57.5°	1149	1427	736	535	528
60°	996	1170	541	412	391
62.5°	747	822	374	249	195
65°	509	452	224	96	49
67.5°	252	191	103	24	13
70°	76	63	32	11	9
72.5°	18	18	11	7	6
75°	9	9	7	5	4
77.5°	6	6	5	3	3
80°	4	4	3	2	2
82.5°	2	2	2	1	0
85°	1	0	0	0	0
87.5°	0	0	0	0	0
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)