

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: 115P141

Luminaire Tested: **EP3GX-132W16P-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P141  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-132W16P-PAF  
Description: 1 X 4 Recessed Convertible Body Troffer with  
a painted white 6 cell parabolic louver.  
Light Source: FO32T8/35K - 2850 Lumens - 32 Watts  
Ballast/Driver: Triad B232I120RH Electronic; L.O.B.F. = 87.78

**Summary**

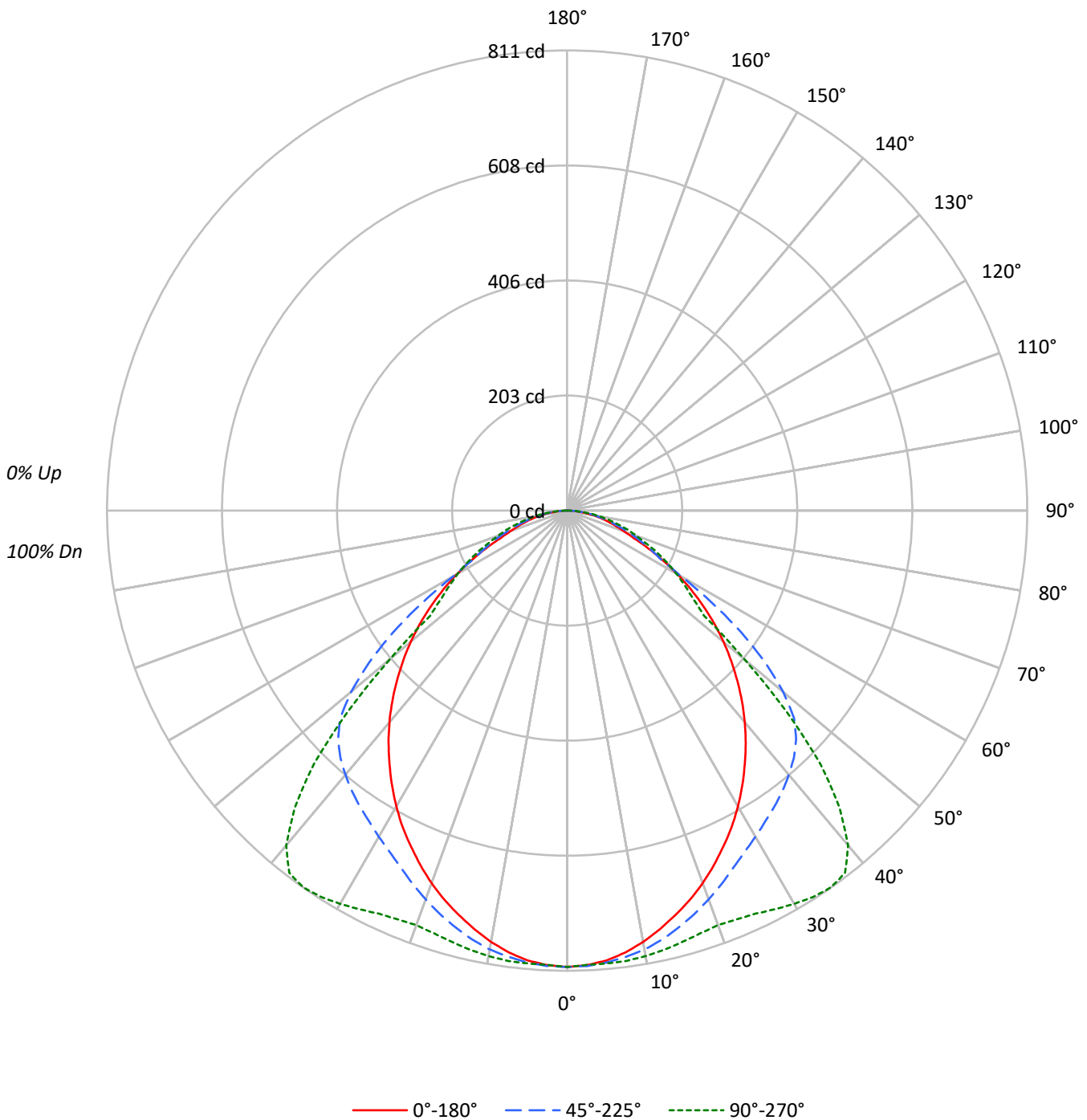
Lumens per Lamp: 2850 (1 lamp)  
Luminaire Lumens: 2013.2 lumens  
Efficiency: 70.6%  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.53 / 1.42  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.3  
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	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	61	58	69	65	60	57	62	59	56	60	57	54	58	55	53	52
3	65	58	53	49	64	57	52	48	55	51	47	53	50	47	52	49	46	44
4	60	52	46	42	59	51	46	42	49	45	41	48	44	40	46	43	40	38
5	55	47	41	36	54	46	40	36	45	40	36	43	39	35	42	38	35	34
6	51	42	36	32	50	42	36	32	40	35	32	39	35	31	38	34	31	30
7	48	38	33	28	46	38	32	28	37	32	28	36	31	28	35	31	28	26
8	44	35	29	25	43	35	29	25	34	29	25	33	28	25	32	28	25	24
9	41	32	27	23	40	32	26	23	31	26	23	30	26	23	30	25	22	21
10	39	30	24	21	38	29	24	21	29	24	21	28	24	21	27	23	20	19

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

	0°	45°	90°
0°	3166	3166	3166
5°	3144	3159	3165
10°	3085	3139	3186
15°	3007	3098	3206
20°	2928	3055	3256
25°	2833	3013	3405
30°	2737	3017	3638
35°	2622	3060	3895
40°	2504	3124	3959
45°	2361	3177	3514
50°	2202	3044	2491
55°	2005	2574	1856
60°	1769	1830	1749
65°	1473	1509	1627
70°	1226	1367	1485
75°	1125	1233	1402
80°	1027	1131	1290
85°	876	985	1129



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	75.9	3.8	2.7	0°	804	804	804	804	804	
10°-20°	215.0	10.7	7.5	5°	796	797	799	804	801	75
20°-30°	326.9	16.2	11.5	15°	738	746	760	780	787	208
30°-40°	410.5	20.4	14.4	25°	652	666	694	750	784	300
40°-50°	413.1	20.5	14.5	35°	546	564	637	748	811	341
50°-60°	288.0	14.3	10.1	45°	424	452	571	622	631	327
60°-70°	171.0	8.5	6.0	55°	292	339	375	266	270	261
70°-80°	87.7	4.4	3.1	65°	158	190	162	168	175	159
80°-90°	25.1	1.2	0.9	75°	74	77	81	88	92	79
90°-100°	0.0	0.0	0.0	85°	19	20	22	24	25	21
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	617.8	30.7	21.7	165°	0	0	0	0	0	0
0°-40°	1028.3	51.1	36.1	175°	0	0	0	0	0	0
0°-60°	1729.4	85.9	60.7	180°	0	0	0	0	0	0
0°-90°	2013.2	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°	2013.2	100.0	70.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	802.0	802.4	803.4	804.2	801.5
5°	795.7	796.9	799.4	804.0	801.0
7.5°	785.6	787.5	793.2	801.4	800.5
10°	771.8	775.8	785.4	795.8	797.1
12.5°	755.4	761.4	774.3	788.2	792.8
15°	737.9	745.5	760.3	779.9	786.8
17.5°	719.4	728.1	745.5	770.1	781.1
20°	698.9	709.2	729.2	759.7	777.3
22.5°	676.0	688.0	712.1	753.1	779.9
25°	652.3	665.5	693.8	750.5	784.0
27.5°	628.3	642.2	677.8	749.6	792.1
30°	602.1	617.8	663.8	750.4	800.3
32.5°	574.5	591.6	649.7	750.1	807.3
35°	545.7	564.2	636.7	747.8	810.6
37.5°	517.1	536.9	623.2	742.2	804.6
40°	487.3	508.6	607.9	725.2	770.4
42.5°	456.2	480.0	591.2	683.0	710.7
45°	424.1	451.9	570.7	621.8	631.2
47.5°	392.2	424.4	542.5	543.5	524.3
50°	359.6	396.2	497.0	448.1	406.7
52.5°	326.1	368.5	439.9	346.3	303.9
55°	292.1	339.0	375.0	266.0	270.5
57.5°	258.3	307.8	303.1	237.5	245.6
60°	224.7	273.3	232.5	213.9	222.2
62.5°	190.8	234.9	185.5	191.0	198.3
65°	158.1	189.7	162.0	168.3	174.7
67.5°	127.4	143.8	140.0	145.7	150.2
70°	106.5	111.4	118.8	123.9	129.0
72.5°	89.9	93.1	99.1	106.7	111.6
75°	74.0	76.8	81.1	88.2	92.2
77.5°	59.4	61.4	65.0	70.8	74.3
80°	45.3	46.9	49.9	54.4	56.9
82.5°	32.1	33.3	35.6	38.7	40.7
85°	19.4	20.4	21.8	23.8	25.0
87.5°	8.3	8.6	8.8	9.7	10.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)