

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: 115P145

Luminaire Tested: **EP3GX-132S16I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P145
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-132S16I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with
a 3" deep 6 cell semi-specular low iridescent
parabolic louver.
Light Source: One-F32T8/35K - 2850 Lumens - 32 watts
Ballast/Driver: Magnetek B232I120RH Electric - L.O.B.F. = 101.3

Summary

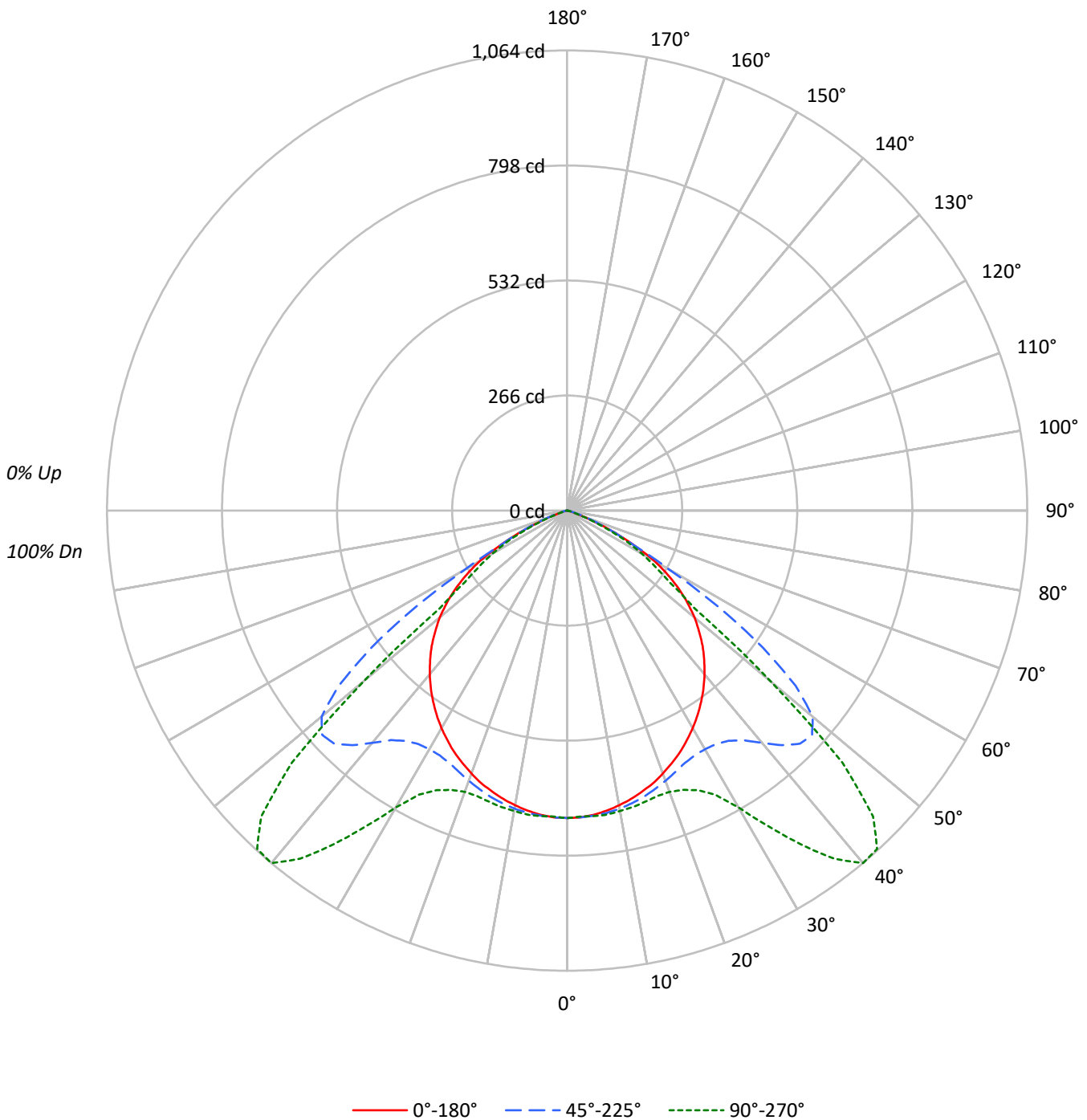
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2081.7 lumens
Efficiency: 73.0%
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.99 / 1.74
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 35.5
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	50	30	10	0	
RCR																						
0	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73				73
1	81	78	76	73	79	76	74	72	73	72	70	71	69	68	68	67	66				64	
2	74	69	65	61	73	68	64	61	65	62	59	63	60	58	61	59	57				55	
3	68	61	56	52	67	60	55	51	58	54	51	56	53	50	54	51	49				47	
4	63	55	49	44	61	54	48	44	52	47	43	50	46	43	49	45	42				41	
5	58	49	43	38	56	48	42	38	47	41	38	45	41	37	44	40	37				35	
6	53	44	38	33	52	43	37	33	42	37	33	41	36	32	40	35	32				31	
7	49	40	33	29	48	39	33	29	38	33	29	37	32	29	36	32	28				27	
8	46	36	30	26	44	35	30	26	35	29	26	34	29	25	33	28	25				24	
9	42	33	27	23	41	32	27	23	32	26	23	31	26	23	30	26	23				21	
10	40	30	24	21	39	30	24	21	29	24	21	28	24	20	28	23	20				19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2799	2799	2799
5°	2790	2798	2802
10°	2766	2798	2818
15°	2739	2792	2840
20°	2710	2786	2899
25°	2680	2797	3097
30°	2641	2895	3600
35°	2595	3123	4527
40°	2538	3602	5467
45°	2466	4242	5567
50°	2352	4538	3760
55°	2162	3788	1983
60°	1826	2149	1567
65°	1155	1146	1006
70°	368	506	345
75°	152	183	152
80°	91	113	91
85°	45	45	45



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	67.3	3.2	2.4	0°	711	711	711	711	711	
10°-20°	193.5	9.3	6.8	5°	706	706	708	712	709	67
20°-30°	304.8	14.6	10.7	15°	672	675	685	695	697	190
30°-40°	440.5	21.2	15.5	25°	617	625	644	688	713	284
40°-50°	550.5	26.4	19.3	35°	540	559	650	843	942	338
50°-60°	371.8	17.9	13.0	45°	443	498	762	957	1000	341
60°-70°	136.3	6.5	4.8	55°	315	449	552	311	289	279
70°-80°	15.4	0.7	0.5	65°	124	182	123	111	108	124
80°-90°	1.7	0.1	0.1	75°	10	12	12	11	10	13
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	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°	565.7	27.2	19.8	165°	0	0	0	0	0	0
0°-40°	1006.1	48.3	35.3	175°	0	0	0	0	0	0
0°-60°	1928.4	92.6	67.7	180°	0	0	0	0	0	0
0°-90°	2081.7	100.0	73.0							
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°	2081.7	100.0	73.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711	711	711	711	711
2.5°	710	709	710	712	708
5°	706	706	708	712	709
7.5°	700	700	705	710	709
10°	692	693	700	706	705
12.5°	683	685	693	701	702
15°	672	675	685	695	697
17.5°	661	665	675	688	692
20°	647	653	665	682	692
22.5°	632	640	654	682	699
25°	617	625	644	688	713
27.5°	599	610	638	702	740
30°	581	594	637	729	792
32.5°	561	577	640	780	865
35°	540	559	650	843	942
37.5°	518	542	669	907	1015
40°	494	525	701	959	1064
42.5°	469	511	736	984	1061
45°	443	498	762	957	1000
47.5°	414	488	768	871	863
50°	384	478	741	719	614
52.5°	351	466	666	492	371
55°	315	449	552	311	289
57.5°	276	420	416	244	241
60°	232	366	273	197	199
62.5°	177	283	175	154	155
65°	124	182	123	111	108
67.5°	70	92	79	70	64
70°	32	40	44	37	30
72.5°	16	20	22	18	15
75°	10	12	12	11	10
77.5°	6	7	8	7	6
80°	4	5	5	5	4
82.5°	2	3	3	3	3
85°	1	1	1	1	1
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)