

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: 218P102

Luminaire Tested: **EP3GAX-132S16I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 218P102  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GAX-132S16I  
Description: 1 X 4 Recessed Convertible Body Luminaire with a 6 cell semi-specular low iridescent parabolic louver.  
Light Source: One - FO32T8/735 - 2800 Lumens - 32 Watts  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = Unknown

**Summary**

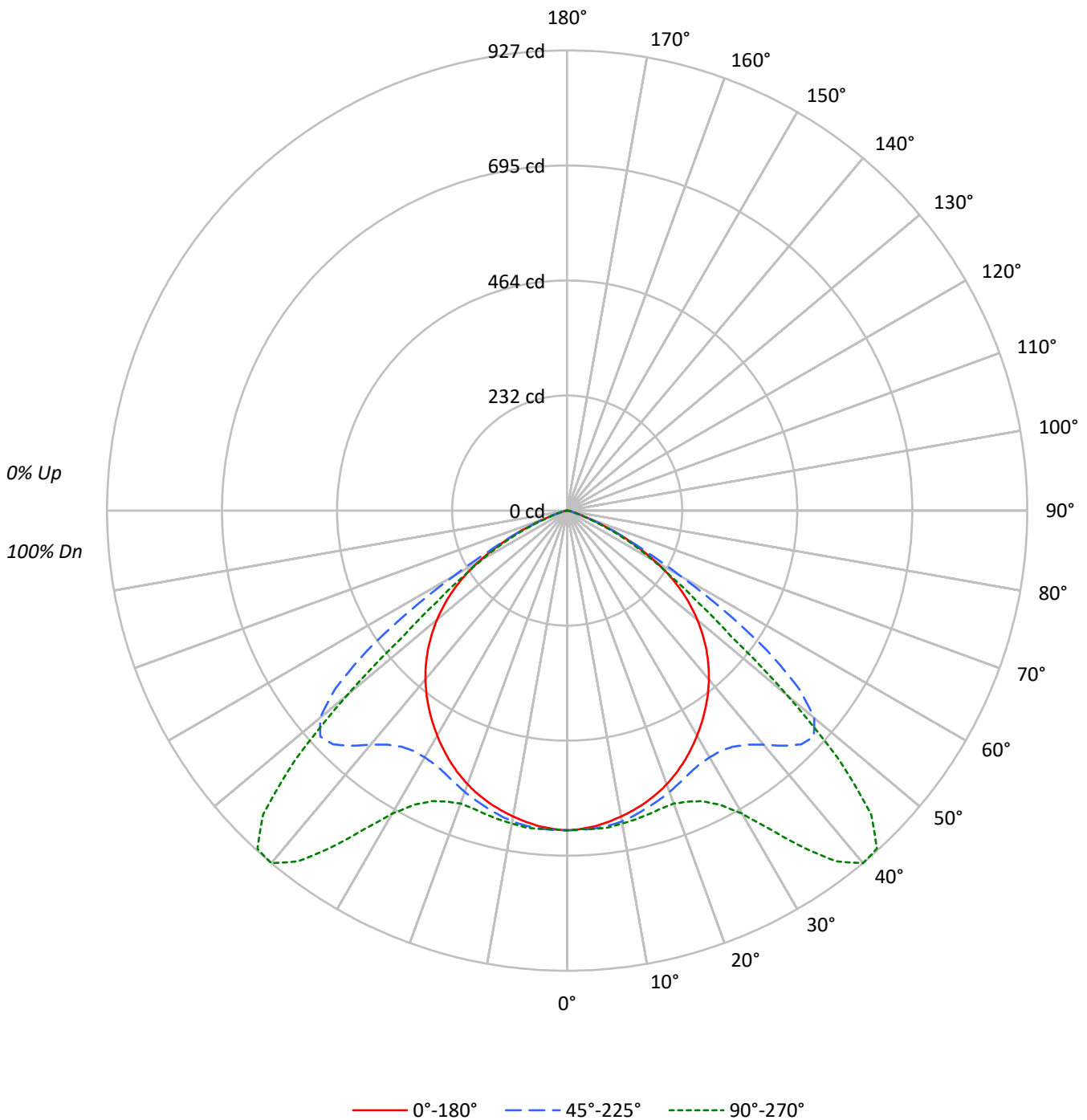
Lumens per Lamp: 2800 (1 lamp)  
Luminaire Lumens: 1887.9 lumens  
Efficiency: 67.4%  
Efficacy: 53.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.96 / 1.72  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
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	80	80	80	80	78	78	78	78	75	75	75	72	72	72	69	69	69	67
1	75	72	70	67	73	70	68	66	68	66	64	65	64	62	63	62	60	59
2	69	64	60	56	67	63	59	56	60	57	54	58	55	53	56	54	52	51
3	63	56	52	48	61	55	51	47	53	50	46	52	48	46	50	47	45	43
4	58	50	45	41	56	49	44	40	48	43	40	46	42	39	45	41	39	37
5	53	45	39	35	52	44	39	35	43	38	34	41	37	34	40	37	34	32
6	49	40	34	30	48	40	34	30	38	34	30	37	33	30	36	32	29	28
7	45	36	31	27	44	36	30	27	35	30	26	34	29	26	33	29	26	25
8	42	33	27	24	41	33	27	24	32	27	23	31	26	23	30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	19
10	36	28	22	19	36	27	22	19	27	22	19	26	22	19	25	22	19	17

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

	0°	45°	90°
0°	2533	2533	2533
5°	2520	2537	2541
10°	2499	2539	2556
15°	2479	2525	2578
20°	2455	2524	2629
25°	2419	2532	2802
30°	2377	2606	3200
35°	2332	2788	3973
40°	2281	3159	4760
45°	2206	3705	4816
50°	2095	3975	3540
55°	1922	3373	2200
60°	1625	2076	1559
65°	1132	1143	1018
70°	536	527	451
75°	199	211	234
80°	106	131	152
85°	63	81	90



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	61.1	3.2	2.2	0°	644	644	644	644	644	
10°-20°	175.6	9.3	6.3	5°	638	639	643	646	644	61
20°-30°	275.5	14.6	9.8	15°	609	614	620	630	633	172
30°-40°	390.8	20.7	14.0	25°	558	564	584	623	646	257
40°-50°	482.6	25.6	17.2	35°	486	501	581	738	828	304
50°-60°	345.5	18.3	12.3	45°	397	441	666	830	866	305
60°-70°	135.2	7.2	4.8	55°	280	397	492	342	321	248
70°-80°	19.4	1.0	0.7	65°	122	182	123	112	109	121
80°-90°	2.4	0.1	0.1	75°	13	15	14	15	15	19
90°-100°	0.0	0.0	0.0	85°	1	2	2	2	2	2
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°	512.2	27.1	18.3	165°	0	0	0	0	0	0
0°-40°	903.0	47.8	32.2	175°	0	0	0	0	0	0
0°-60°	1731.0	91.7	61.8	180°	0	0	0	0	0	0
0°-90°	1887.9	100.0	67.4							
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°	1887.9	100.0	67.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	644.1	644.1	644.1	644.1	644.1
2.5°	642.1	642.5	644.1	645.7	642.3
5°	638.4	639.3	642.7	645.9	643.8
7.5°	632.7	634.8	640.2	645.0	643.8
10°	625.8	629.3	635.9	640.6	640.2
12.5°	618.0	622.6	628.6	635.8	637.0
15°	609.1	614.4	620.3	630.5	633.4
17.5°	598.7	604.4	612.1	624.5	629.3
20°	586.7	592.5	603.1	618.6	628.2
22.5°	573.0	579.0	593.2	617.8	634.5
25°	557.6	564.5	583.5	622.7	645.8
27.5°	541.2	549.7	576.6	633.2	667.9
30°	523.5	534.1	574.0	654.3	704.7
32.5°	505.1	518.0	574.2	688.7	760.8
35°	485.8	501.4	580.9	738.1	827.7
37.5°	465.6	484.5	594.2	793.0	890.5
40°	444.3	468.6	615.5	838.9	927.3
42.5°	421.2	453.7	642.5	854.9	923.6
45°	396.8	441.0	666.2	830.5	866.1
47.5°	370.3	430.6	674.2	755.8	742.8
50°	342.4	420.9	649.8	627.1	578.7
52.5°	312.4	411.3	588.1	476.8	416.7
55°	280.4	396.7	492.1	342.0	320.9
57.5°	245.2	370.7	374.7	263.4	250.8
60°	206.7	326.2	264.0	202.4	198.2
62.5°	164.5	261.5	178.1	154.0	153.9
65°	121.7	181.6	122.8	111.7	109.4
67.5°	79.8	101.9	78.2	73.1	69.6
70°	46.6	49.2	45.8	42.5	39.2
72.5°	24.3	26.2	24.7	24.1	23.2
75°	13.1	14.6	13.9	15.2	15.4
77.5°	7.9	8.9	9.1	10.0	10.3
80°	4.7	5.4	5.8	6.4	6.7
82.5°	2.6	3.2	3.4	3.8	4.0
85°	1.4	1.6	1.8	1.9	2.0
87.5°	0.5	0.6	0.6	0.5	0.6
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)