

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: 218P105

Luminaire Tested: **EP3GAX-132-S18MISYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX-132-S18MISYM
Description: 1 X 4 Recessed Convertible Body Luminaire with an 8 cell specular symmetrical parabolic louver.
Light Source: One - FO32/735 - 2800 Lumens - 32 Watts
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = Unknown

Summary

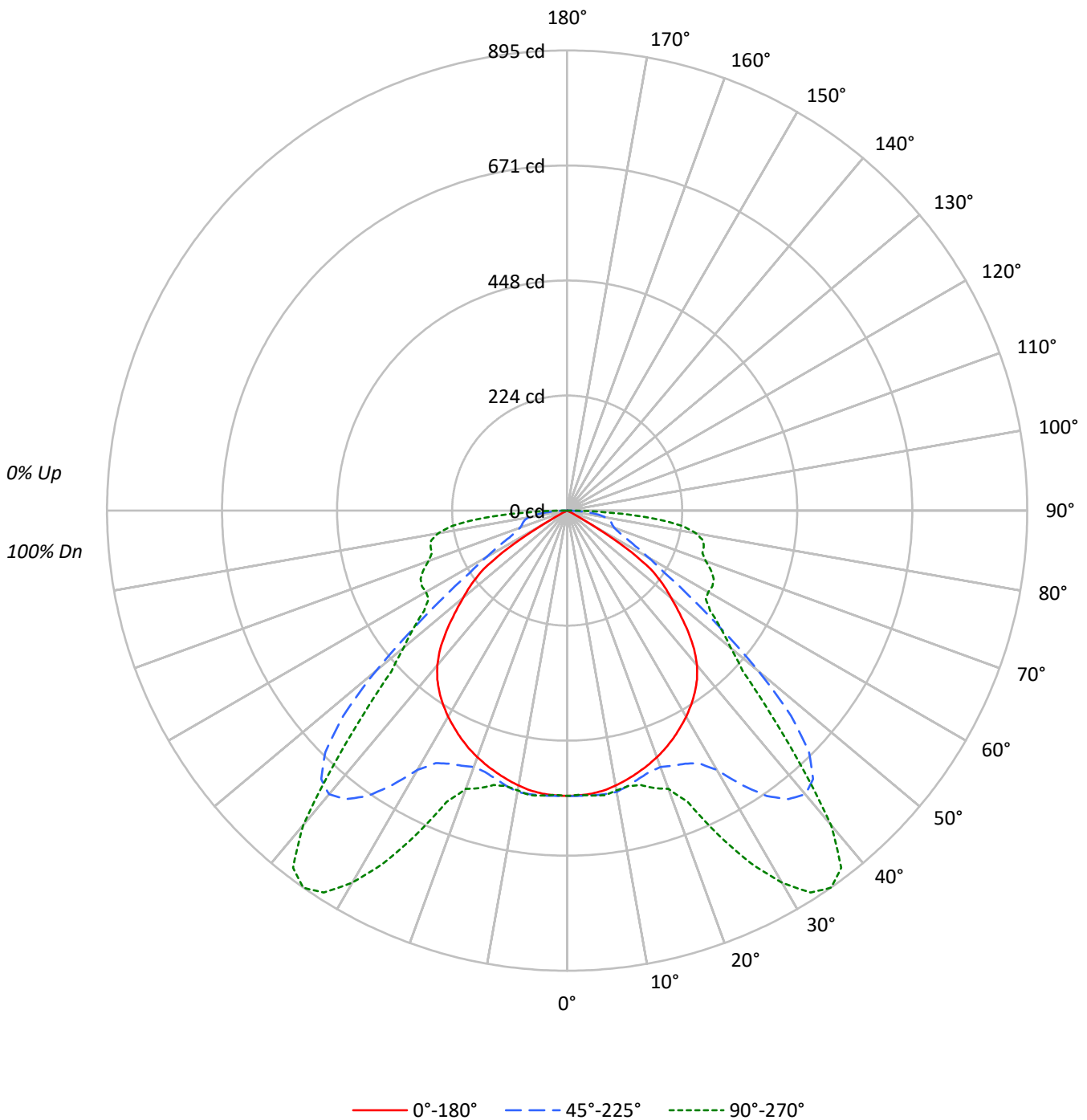
Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1887.3 lumens
Efficiency: 67.4%
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.82 / 1.65
Luminous Opening: Rectangular (W 0.63' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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	73	70	67	64	71	68	66	63	66	63	61	63	61	60	61	59	58	56		
2	67	61	57	53	65	60	56	52	58	54	51	55	53	50	53	51	49	47		
3	61	54	49	44	59	53	48	44	51	47	43	49	45	42	47	44	42	40		
4	56	48	42	38	54	47	42	37	45	41	37	44	40	36	42	39	36	34		
5	52	43	37	32	50	42	37	32	41	36	32	39	35	32	38	34	31	30		
6	48	39	33	28	46	38	32	28	37	32	28	36	31	28	35	31	27	26		
7	44	35	29	25	43	34	29	25	33	28	25	32	28	24	31	27	24	23		
8	41	32	26	22	40	31	26	22	30	25	22	30	25	22	29	25	22	20		
9	38	29	23	20	37	29	23	20	28	23	20	27	23	19	26	22	19	18		
10	36	27	21	18	35	26	21	18	26	21	18	25	21	18	24	20	17	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2528	2528	2528
5°	2528	2543	2545
10°	2513	2570	2557
15°	2491	2545	2606
20°	2475	2573	2793
25°	2456	2730	3499
30°	2435	3062	4396
35°	2407	3769	4979
40°	2337	4285	4752
45°	2141	4287	3604
50°	1871	3448	2943
55°	1579	2299	2698
60°	487	1660	2888
65°	49	1337	3394
70°	37	1297	3819
75°	30	1565	4843
80°	24	1986	6691
85°	21	2169	8558



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	53.0	2.8	1.9	0°	555	555	555	555	555	
10°-20°	153.9	8.2	5.5	5°	553	554	556	559	556	52
20°-30°	266.0	14.1	9.5	15°	528	536	540	550	552	149
30°-40°	410.6	21.8	14.7	25°	488	497	543	636	696	225
40°-50°	411.8	21.8	14.7	35°	433	468	678	850	895	270
50°-60°	270.1	14.3	9.6	45°	332	448	665	593	559	255
60°-70°	142.9	7.6	5.1	55°	199	342	289	319	340	162
70°-80°	117.9	6.2	4.2	65°	4	17	124	252	315	11
80°-90°	61.3	3.2	2.2	75°	2	2	89	219	275	2
90°-100°	0.0	0.0	0.0	85°	0	1	42	124	164	0
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°	472.8	25.1	16.9	165°	0	0	0	0	0	0
0°-40°	883.4	46.8	31.6	175°	0	0	0	0	0	0
0°-60°	1565.2	82.9	55.9	180°	0	0	0	0	0	0
0°-90°	1887.3	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°	1887.3	100.0	67.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.9	554.9	554.9	554.9	554.9
2.5°	554.3	554.5	555.4	557.4	553.4
5°	552.7	553.5	556.1	559.2	556.4
7.5°	549.0	551.4	556.3	561.1	558.4
10°	543.2	547.9	555.5	556.2	552.6
12.5°	536.1	542.6	548.2	550.2	548.7
15°	528.1	536.1	539.5	549.7	552.5
17.5°	519.7	528.8	532.7	558.5	565.9
20°	510.4	518.8	530.6	567.3	576.1
22.5°	500.1	508.1	537.0	583.9	613.5
25°	488.5	497.1	543.1	636.3	696.1
27.5°	476.1	487.0	553.6	711.2	772.8
30°	462.8	479.0	582.0	774.6	835.5
32.5°	448.4	473.2	632.7	823.4	880.8
35°	432.7	468.5	677.6	849.5	895.2
37.5°	414.7	464.3	707.3	845.7	875.7
40°	393.0	457.3	720.5	807.0	799.0
42.5°	365.7	450.8	708.0	714.7	673.3
45°	332.3	448.0	665.3	592.9	559.3
47.5°	296.9	442.8	590.7	484.9	464.1
50°	263.9	423.8	486.5	400.5	415.2
52.5°	234.0	391.4	377.7	358.1	377.2
55°	198.8	342.3	289.4	318.8	339.7
57.5°	136.6	255.7	223.3	281.9	319.4
60°	53.4	133.1	182.2	266.2	316.9
62.5°	9.2	45.2	149.2	260.0	318.5
65°	4.5	16.6	124.0	252.3	314.8
67.5°	3.5	9.7	107.7	243.9	302.7
70°	2.8	5.7	97.4	234.2	286.7
72.5°	2.1	3.5	92.1	224.8	275.8
75°	1.7	2.5	88.9	219.0	275.1
77.5°	1.3	1.8	84.0	212.4	271.1
80°	0.9	1.4	75.7	194.8	255.0
82.5°	0.6	1.0	61.9	167.9	224.6
85°	0.4	0.6	41.5	123.8	163.7
87.5°	0.2	0.3	14.6	57.4	75.4
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)