

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: 218P113

Luminaire Tested: **EP3GAX-132-S18MIVS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P113
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX-132-S18MIVS
Description: 1 X 4 Recessed Convertible Body Luminaire with an 8 cell specular vertical stack parabolic louver.
Light Source: One - FO32/735 - 2800 Lumens ea. 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = Unknown

Summary

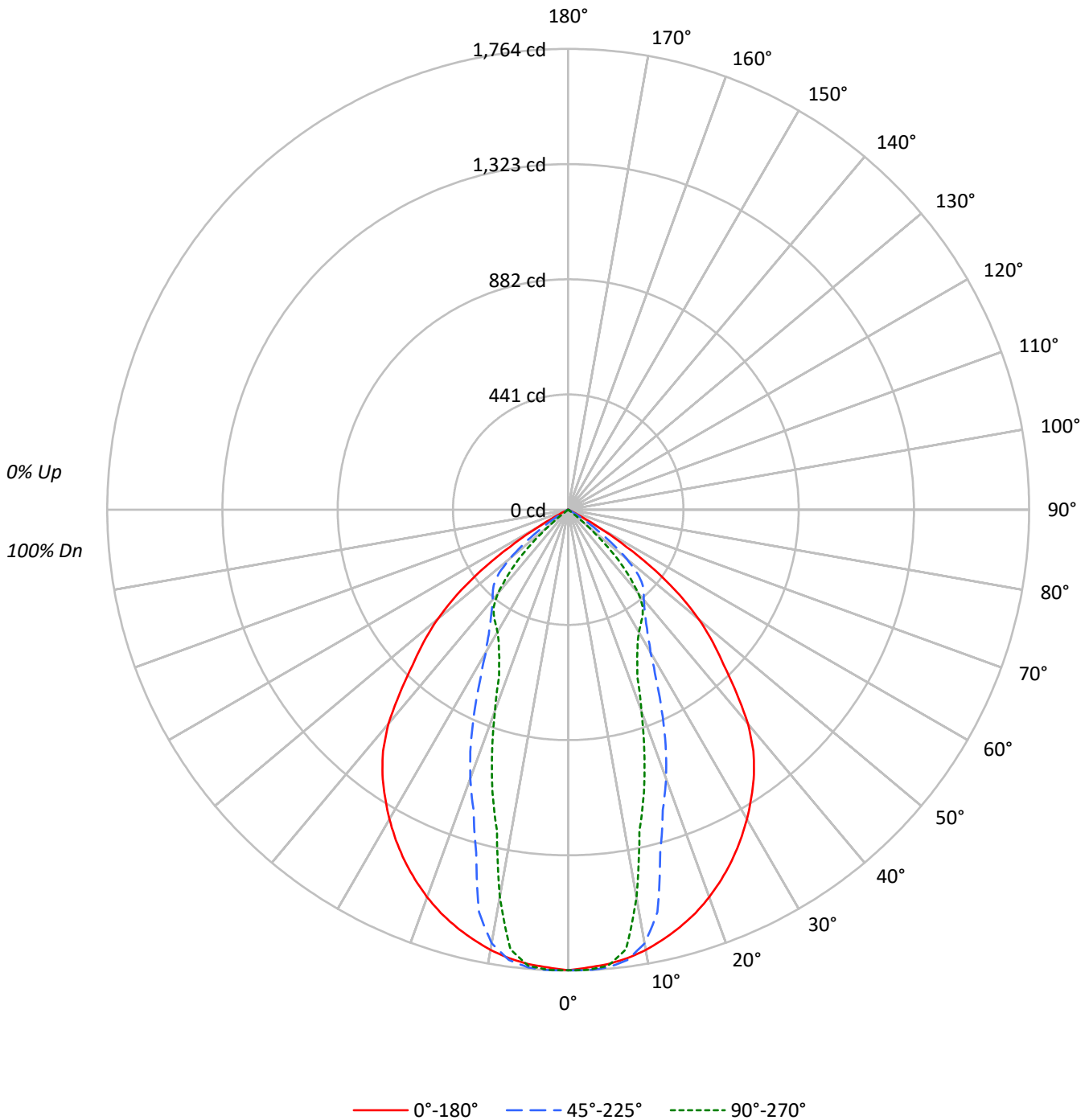
Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1902.2 lumens
Efficiency: 67.9%
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.61 / 0.78
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

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	81	81	81	81	79	79	79	79	75	75	75		72	72	72		69	69	69	68
1	77	74	73	71	75	73	71	70	70	69	68		68	67	65		65	64	64	62
2	72	68	65	62	70	67	64	62	65	62	60		63	61	59		61	59	58	57
3	68	62	59	55	66	62	58	55	60	57	54		58	55	53		56	54	52	51
4	63	57	53	50	62	57	53	49	55	52	49		54	51	48		52	50	48	47
5	59	53	48	45	58	52	48	45	51	47	44		50	46	44		49	46	44	42
6	56	49	44	41	55	48	44	41	47	43	40		46	43	40		45	42	40	39
7	53	45	41	37	52	45	40	37	44	40	37		43	40	37		42	39	37	36
8	50	42	38	34	49	42	37	34	41	37	34		40	37	34		40	36	34	33
9	47	39	35	32	46	39	35	32	38	34	32		38	34	32		37	34	31	30
10	44	37	33	30	44	37	32	30	36	32	29		36	32	29		35	32	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6838	6838	6838
5°	6798	6849	6822
10°	6739	6637	5936
15°	6642	5457	4494
20°	6514	4520	3385
25°	6343	3621	2671
30°	6127	2822	2423
35°	5867	2448	2349
40°	5418	2279	2117
45°	4619	2200	1470
50°	3941	1756	495
55°	2766	893	20
60°	1040	202	16
65°	110	46	9
70°	57	23	11
75°	30	15	15
80°	22	22	0
85°	45	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	164.4	8.6	5.9	0°	1763	1763	1763	1763	1763	
10°-20°	389.4	20.5	13.9	5°	1746	1753	1759	1757	1752	166
20°-30°	438.4	23.0	15.7	15°	1654	1636	1359	1179	1119	466
30°-40°	422.9	22.2	15.1	25°	1482	1233	846	655	624	682
40°-50°	329.0	17.3	11.8	35°	1239	837	517	494	496	770
50°-60°	140.6	7.4	5.0	45°	842	454	401	310	268	655
60°-70°	15.6	0.8	0.6	55°	409	259	132	8	3	356
70°-80°	1.4	0.1	0.0	65°	12	17	5	2	1	32
80°-90°	0.3	0.0	0.0	75°	2	2	1	1	1	3
90°-100°	0.0	0.0	0.0	85°	1	1	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°	992.3	52.2	35.4	165°	0	0	0	0	0	0
0°-40°	1415.2	74.4	50.5	175°	0	0	0	0	0	0
0°-60°	1884.9	99.1	67.3	180°	0	0	0	0	0	0
0°-90°	1902.2	100.0	67.9							
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°	1902.2	100.0	67.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763	1763	1763	1763	1763
2.5°	1754	1759	1764	1765	1763
5°	1746	1753	1759	1757	1752
7.5°	1732	1739	1738	1714	1697
10°	1711	1717	1685	1587	1507
12.5°	1684	1682	1578	1322	1259
15°	1654	1636	1359	1179	1119
17.5°	1619	1573	1205	1044	967
20°	1578	1490	1095	897	820
22.5°	1532	1381	975	757	691
25°	1482	1233	846	655	624
27.5°	1427	1098	726	595	574
30°	1368	1001	630	550	541
32.5°	1305	922	566	518	517
35°	1239	837	517	494	496
37.5°	1164	738	479	472	469
40°	1070	632	450	439	418
42.5°	954	537	427	384	345
45°	842	454	401	310	268
47.5°	750	387	358	233	175
50°	653	336	291	143	82
52.5°	539	293	209	60	7
55°	409	259	132	8	3
57.5°	265	212	65	5	3
60°	134	137	26	3	2
62.5°	45	60	8	2	2
65°	12	17	5	2	1
67.5°	6	5	2	1	1
70°	5	3	2	1	1
72.5°	3	2	1	1	1
75°	2	2	1	1	1
77.5°	2	1	1	1	0
80°	1	1	1	0	0
82.5°	1	1	0	0	0
85°	1	1	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)