

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: 218P118

Luminaire Tested: **EP3GX-OU-232S18MIVS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 218P118  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-OU-232S18MIVS  
Description: 1 X 4 Over and Under Housing with an 8 cell  
specular vertical stack parabolic louver.  
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 2685.3 lumens  
Efficiency: 48.0%  
Efficacy: 48.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.67 / 0.91  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

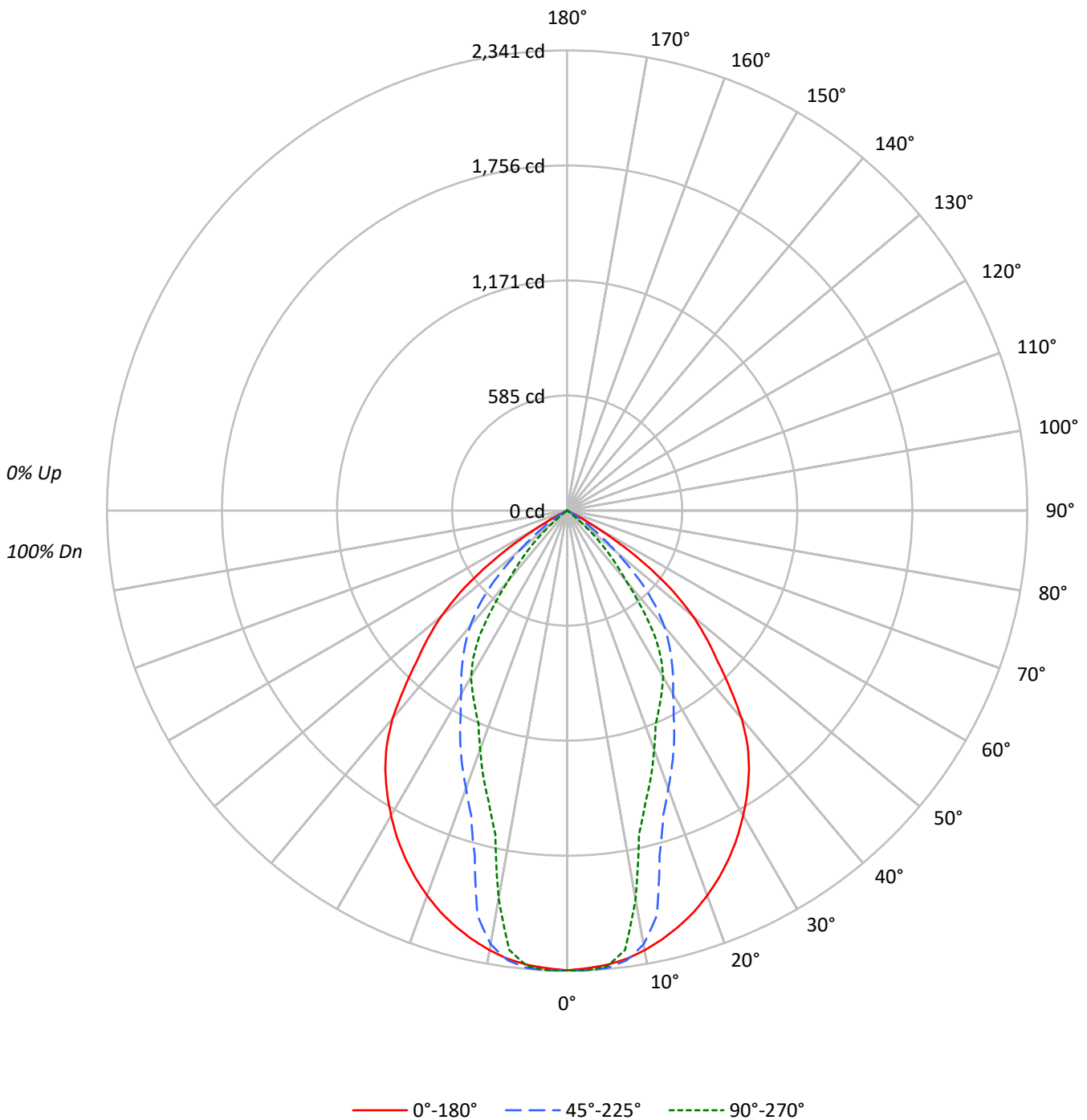
Input Watts (W): 55.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	57	57	57	57	56	56	56	56	53	53	53	51	51	51	49	49	49	48
1	54	53	51	50	53	51	50	49	50	49	48	48	47	46	46	45	45	44
2	51	48	46	44	50	47	45	44	46	44	43	44	43	42	43	42	41	40
3	48	44	41	39	47	43	41	39	42	40	38	41	39	38	40	38	37	36
4	45	41	37	35	44	40	37	35	39	36	34	38	36	34	37	35	34	33
5	42	37	34	32	41	37	34	32	36	33	31	35	33	31	34	32	31	30
6	39	34	31	29	39	34	31	29	33	31	28	33	30	28	32	30	28	27
7	37	32	29	26	36	32	28	26	31	28	26	30	28	26	30	28	26	25
8	35	30	26	24	34	29	26	24	29	26	24	28	26	24	28	26	24	23
9	33	28	25	22	32	28	24	22	27	24	22	27	24	22	26	24	22	21
10	31	26	23	21	31	26	23	21	25	23	21	25	22	21	25	22	21	20

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

	0°	45°	90°
0°	9207	9207	9207
5°	9167	9230	9195
10°	9077	8957	8010
15°	8929	7405	6268
20°	8730	6300	5416
25°	8469	5594	4808
30°	8141	4895	4441
35°	7751	4450	3734
40°	7096	3946	2384
45°	6018	3145	1509
50°	5113	1947	472
55°	3582	981	34
60°	1393	299	24
65°	158	84	19
70°	81	23	12
75°	46	15	0
80°	23	23	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°	218.5	8.1	3.9	0°	2339	2339	2339	2339	2339	
10°-20°	526.5	19.6	9.4	5°	2320	2328	2336	2336	2327	220
20°-30°	647.4	24.1	11.6	15°	2191	2173	1817	1599	1538	617
30°-40°	638.9	23.8	11.4	25°	1950	1662	1288	1139	1107	896
40°-50°	444.4	16.6	7.9	35°	1613	1192	926	833	777	1002
50°-60°	186.7	7.0	3.3	45°	1081	736	565	329	271	842
60°-70°	20.7	0.8	0.4	55°	522	399	143	15	5	456
70°-80°	1.8	0.1	0.0	65°	17	21	9	2	2	44
80°-90°	0.3	0.0	0.0	75°	3	2	1	1	0	4
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°	1392.5	51.9	24.9	165°	0	0	0	0	0	0
0°-40°	2031.4	75.6	36.3	175°	0	0	0	0	0	0
0°-60°	2662.6	99.2	47.5	180°	0	0	0	0	0	0
0°-90°	2685.3	100.0	48.0							
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°	2685.3	100.0	48.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2339	2339	2339	2339	2339
2.5°	2330	2335	2341	2346	2340
5°	2320	2328	2336	2336	2327
7.5°	2301	2313	2309	2279	2255
10°	2271	2282	2241	2122	2004
12.5°	2234	2236	2109	1770	1686
15°	2191	2173	1817	1599	1538
17.5°	2142	2093	1625	1481	1419
20°	2084	1989	1504	1364	1293
22.5°	2020	1850	1397	1235	1177
25°	1950	1662	1288	1139	1107
27.5°	1874	1493	1174	1069	1042
30°	1791	1374	1077	1001	977
32.5°	1705	1281	1002	928	888
35°	1613	1192	926	833	777
37.5°	1509	1085	850	713	624
40°	1381	968	768	566	464
42.5°	1228	849	674	420	362
45°	1081	736	565	329	271
47.5°	960	637	439	239	175
50°	835	556	318	146	77
52.5°	688	481	223	62	8
55°	522	399	143	15	5
57.5°	343	290	79	9	4
60°	177	168	38	5	3
62.5°	62	71	19	3	2
65°	17	21	9	2	2
67.5°	9	7	3	2	1
70°	7	4	2	2	1
72.5°	5	3	2	1	1
75°	3	2	1	1	0
77.5°	2	2	1	1	1
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)