

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: 187P102

Luminaire Tested: **2EP3GX-SS-317S33MI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 187P102  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-SS-317S33MI  
Description: 2 X 2 Silver Steel Recessed Troffer with a 3" deep 9 cell specular low iridescent parabolic louver  
Light Source: Three - FO17T8/35K - 1350 Lumens ea. - 17 Watts ea.  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

**Summary**

Lumens per Lamp: 1350 (3 lamps)  
Luminaire Lumens: 3118.2 lumens  
Efficiency: 77.0%  
Efficacy: 63.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.56 / 1.46  
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')  
CIE Type: Direct

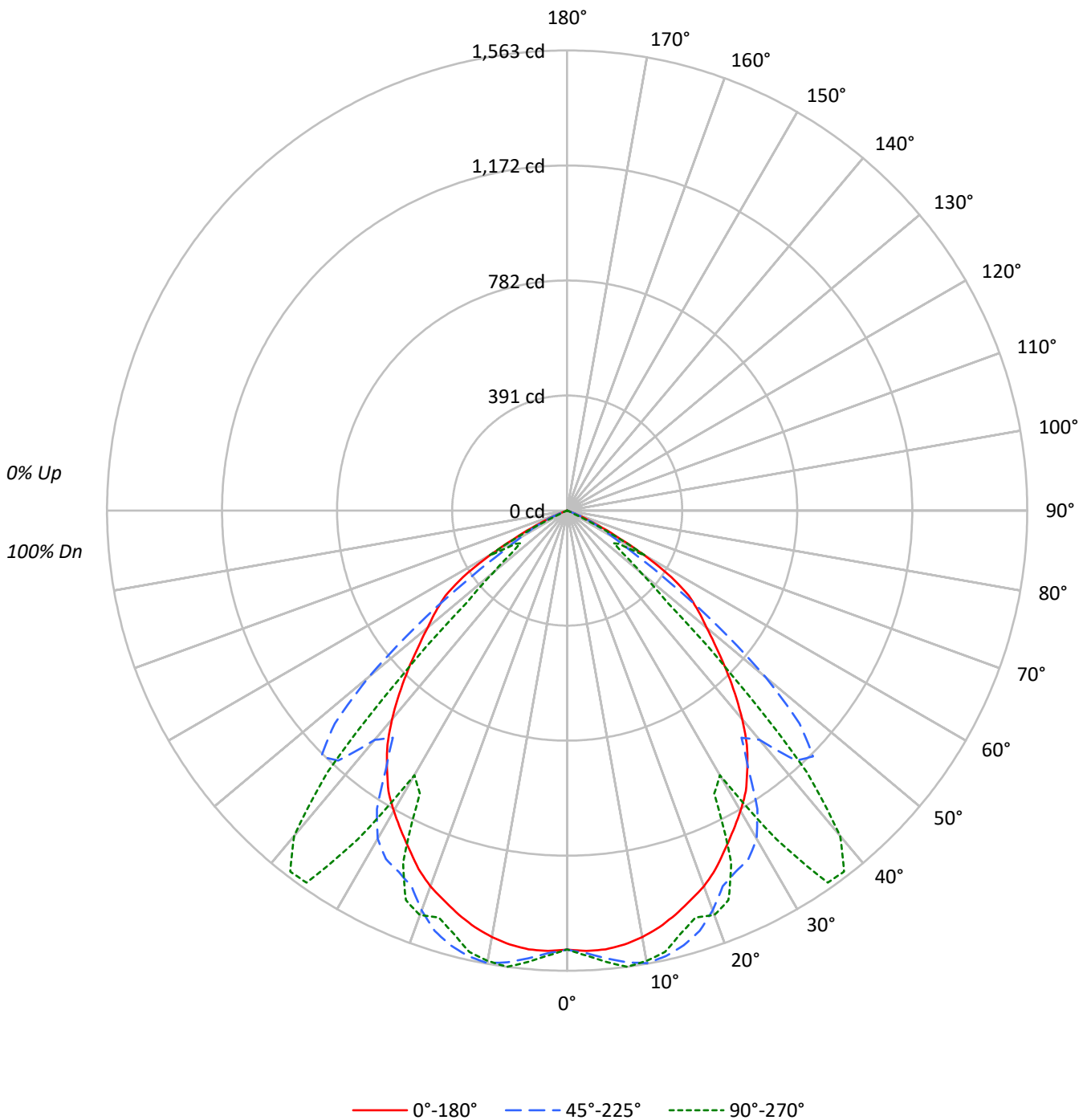
Input Watts (W): 49.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	92	92	92	90	90	90	90	86	86	86		82	82	82		79	79	79	77
1	86	83	81	79	84	82	79	78	78	77	75		76	74	73		73	72	71	69
2	80	75	71	68	78	74	70	67	71	68	65		69	66	64		67	65	63	61
3	74	68	63	59	73	67	62	58	64	61	57		62	59	56		61	58	55	54
4	69	61	56	51	67	60	55	51	58	54	50		57	53	50		55	52	49	48
5	64	56	50	45	62	55	49	45	53	48	45		52	48	44		50	47	44	42
6	59	51	45	40	58	50	44	40	49	44	40		47	43	39		46	42	39	38
7	55	46	40	36	54	46	40	36	44	39	36		43	39	35		42	38	35	34
8	52	42	37	32	51	42	36	32	41	36	32		40	35	32		39	35	32	31
9	48	39	33	29	47	39	33	29	38	33	29		37	32	29		36	32	29	28
10	45	36	31	27	45	36	30	27	35	30	27		34	30	27		34	30	27	25

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

	0°	45°	90°
0°	5304	5304	5304
5°	5342	5452	5495
10°	5313	5638	5609
15°	5233	5631	5480
20°	5140	5470	5534
25°	4980	5314	5177
30°	4838	5286	4263
35°	4633	4659	6700
40°	4295	4718	6696
45°	3838	5941	4009
50°	3420	4864	1815
55°	3126	2598	1197
60°	2141	1295	2177
65°	858	732	219
70°	135	104	31
75°	27	14	14
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	145.9	4.7	3.6	0°	1491	1491	1491	1491	1491	
10°-20°	421.6	13.5	10.4	5°	1496	1511	1527	1537	1539	142
20°-30°	612.1	19.6	15.1	15°	1421	1490	1529	1519	1488	400
30°-40°	747.4	24.0	18.5	25°	1269	1361	1354	1391	1319	585
40°-50°	717.1	23.0	17.7	35°	1067	1120	1073	1355	1543	665
50°-60°	370.1	11.9	9.1	45°	763	863	1181	1032	797	590
60°-70°	101.9	3.3	2.5	55°	504	585	419	236	193	434
70°-80°	2.2	0.1	0.1	65°	102	98	87	57	26	119
80°-90°	0.0	0.0	0.0	75°	2	1	1	1	1	3
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	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°	1179.6	37.8	29.1	165°	0	0	0	0	0	0
0°-40°	1927.0	61.8	47.6	175°	0	0	0	0	0	0
0°-60°	3014.1	96.7	74.4	180°	0	0	0	0	0	0
0°-90°	3118.2	100.0	77.0							
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°	3118.2	100.0	77.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1491	1491	1491	1491	1491
2.5°	1497	1500	1505	1510	1513
5°	1496	1511	1527	1537	1539
7.5°	1487	1516	1547	1565	1563
10°	1471	1511	1561	1564	1553
12.5°	1449	1503	1550	1553	1536
15°	1421	1490	1529	1519	1488
17.5°	1389	1469	1497	1461	1449
20°	1358	1441	1445	1454	1462
22.5°	1318	1405	1381	1449	1432
25°	1269	1361	1354	1391	1319
27.5°	1223	1311	1334	1249	1083
30°	1178	1254	1287	1055	1038
32.5°	1130	1191	1202	1093	1325
35°	1067	1120	1073	1355	1543
37.5°	1003	1052	972	1497	1545
40°	925	985	1016	1455	1442
42.5°	844	927	1152	1312	1206
45°	763	863	1181	1032	797
47.5°	686	792	1071	668	461
50°	618	727	879	413	328
52.5°	563	663	646	304	238
55°	504	585	419	236	193
57.5°	420	498	259	206	211
60°	301	370	182	202	306
62.5°	184	222	131	195	158
65°	102	98	87	57	26
67.5°	43	31	38	9	5
70°	13	11	10	3	3
72.5°	3	3	2	2	2
75°	2	1	1	1	1
77.5°	1	1	1	1	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	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)