

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: 114P118

Luminaire Tested: **EP3GX2048-232S28I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 114P118
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX2048-232S28I
Description: 20" x 48" Recessed Troffer with a 3" deep 16 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

Summary

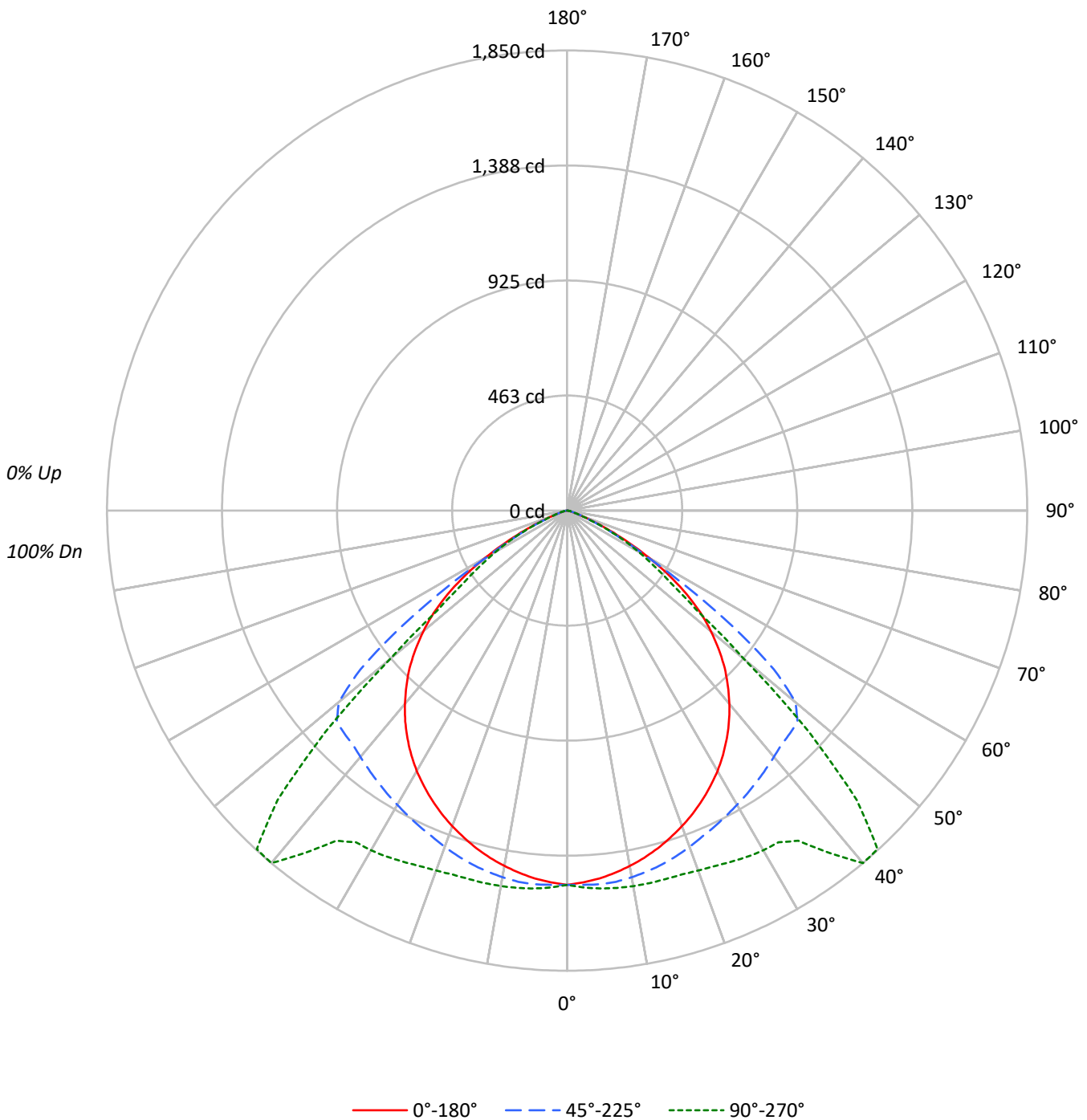
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3842.8 lumens
Efficiency: 68.6%
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.81 / 1.57
Luminous Opening: Rectangular (W 1.4' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.9
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	76	74	71	69	74	72	70	68	69	68	66	67	65	64	64	63	62	61
2	70	66	62	59	69	65	61	58	62	59	57	60	58	55	58	56	54	53
3	65	59	54	50	63	58	53	50	56	52	49	54	51	48	52	50	47	46
4	60	53	47	43	58	52	47	43	50	46	42	49	45	42	47	44	41	40
5	55	47	42	38	54	47	41	37	45	41	37	44	40	37	43	39	36	35
6	51	43	37	33	50	42	37	33	41	36	33	40	36	32	39	35	32	31
7	47	39	33	29	46	38	33	29	37	32	29	36	32	29	35	31	29	27
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	28	26	24
9	41	32	27	23	40	32	27	23	31	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	29	25	21	29	24	21	28	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3095	3095	3095
5°	3065	3113	3148
10°	3030	3126	3201
15°	2993	3136	3264
20°	2954	3149	3370
25°	2916	3181	3535
30°	2871	3244	3745
35°	2809	3339	4067
40°	2725	3471	4966
45°	2606	3685	4790
50°	2415	3833	2972
55°	2105	2915	1828
60°	1567	1509	1365
65°	925	803	822
70°	361	355	349
75°	167	175	207
80°	95	107	142
85°	71	71	94



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	143.4	3.7	2.6	0°	1505	1505	1505	1505	1505	
10°-20°	416.0	10.8	7.4	5°	1485	1495	1508	1517	1525	141
20°-30°	652.8	17.0	11.7	15°	1406	1433	1473	1512	1533	396
30°-40°	850.8	22.1	15.2	25°	1285	1330	1402	1497	1558	592
40°-50°	959.0	25.0	17.1	35°	1119	1187	1330	1491	1620	699
50°-60°	594.0	15.5	10.6	45°	896	997	1267	1604	1647	687
60°-70°	194.1	5.1	3.5	55°	587	730	813	527	510	517
70°-80°	28.6	0.7	0.5	65°	190	222	165	167	169	197
80°-90°	4.2	0.1	0.1	75°	21	22	22	25	26	27
90°-100°	0.0	0.0	0.0	85°	3	3	3	4	4	3
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°	1212.2	31.5	21.6	165°	0	0	0	0	0	0
0°-40°	2062.9	53.7	36.8	175°	0	0	0	0	0	0
0°-60°	3615.9	94.1	64.6	180°	0	0	0	0	0	0
0°-90°	3842.8	100.0	68.6							
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°	3842.8	100.0	68.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505	1505	1505	1505	1505
2.5°	1496	1501	1506	1510	1517
5°	1485	1495	1508	1517	1525
7.5°	1469	1484	1505	1520	1530
10°	1451	1469	1497	1520	1533
12.5°	1430	1452	1486	1517	1534
15°	1406	1433	1473	1512	1533
17.5°	1379	1411	1457	1503	1534
20°	1350	1386	1439	1500	1540
22.5°	1319	1359	1419	1498	1547
25°	1285	1330	1402	1497	1558
27.5°	1248	1298	1384	1498	1569
30°	1209	1264	1366	1497	1577
32.5°	1166	1227	1348	1493	1581
35°	1119	1187	1330	1491	1620
37.5°	1069	1143	1311	1526	1735
40°	1015	1097	1293	1609	1850
42.5°	957	1048	1276	1668	1847
45°	896	997	1267	1604	1647
47.5°	827	942	1256	1379	1320
50°	755	882	1198	1062	929
52.5°	676	814	1048	733	652
55°	587	730	813	527	510
57.5°	488	622	566	410	414
60°	381	492	367	321	332
62.5°	278	350	247	241	252
65°	190	222	165	167	169
67.5°	113	125	102	103	99
70°	60	65	59	59	58
72.5°	33	36	35	36	36
75°	21	22	22	25	26
77.5°	13	14	15	17	18
80°	8	9	9	11	12
82.5°	5	5	6	7	8
85°	3	3	3	4	4
87.5°	1	1	1	1	1
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)