

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: 104P212

Luminaire Tested: **2EP3GX-SS-232S26M/I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P212
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-SS-232S26M/I
Description: 2 X 4 Recessed Troffer with a silver steel
body and a 3" deep 12 cell specular low
iridescent parabolic louver.
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B2321120RH Electronic

Summary

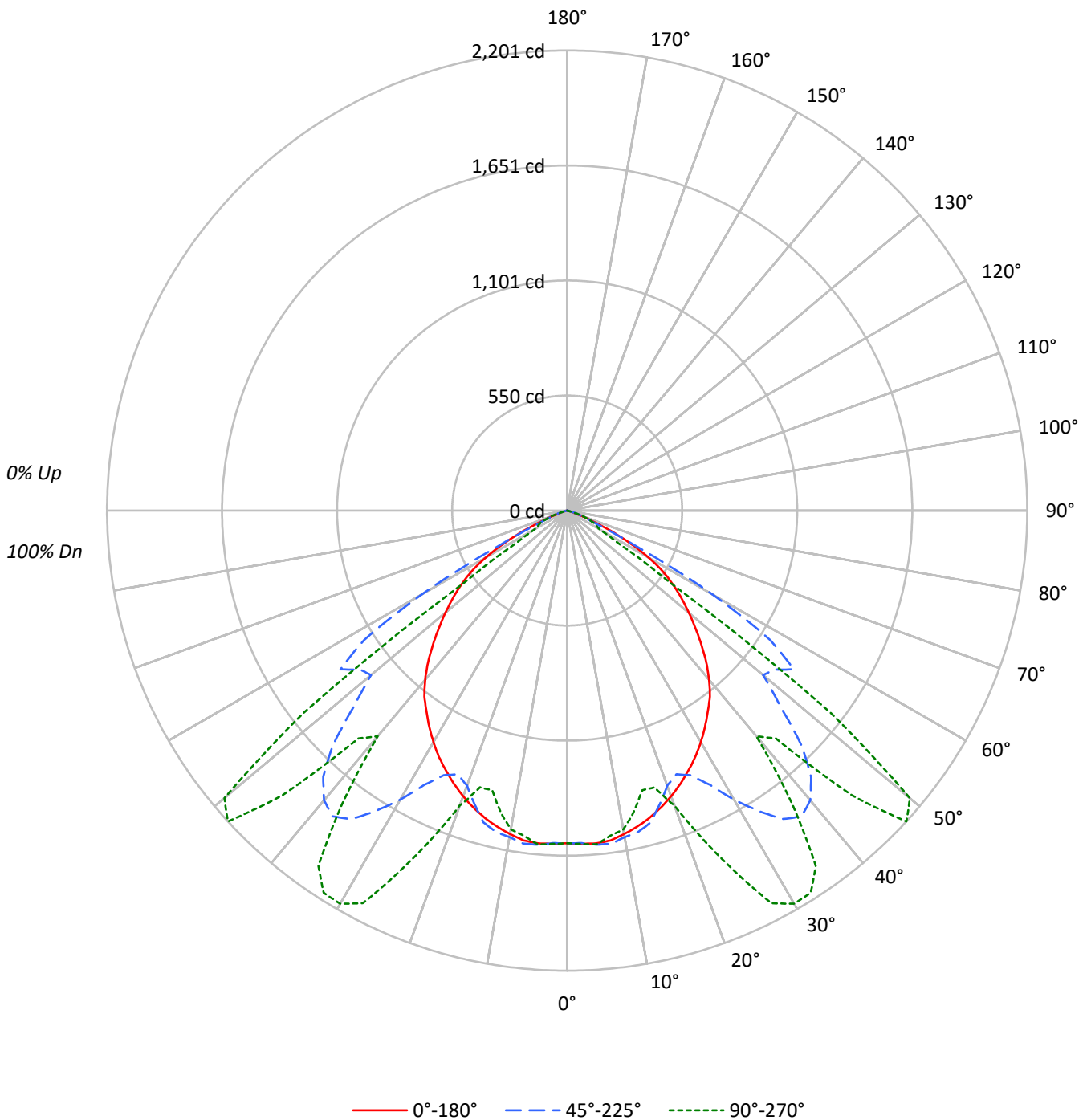
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4599.9 lumens
Efficiency: 80.7%
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.58 / 1.61
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	81											81																	
1	90	86	84	81	87	85	82	80	81	79	77	78	77	75	75	74	73	71											71																	
2	83	77	72	68	81	75	71	67	73	69	66	70	67	64	68	65	63	61											61																	
3	76	68	62	58	74	67	62	57	65	60	56	63	59	55	61	57	54	53											53																	
4	70	61	54	49	68	60	54	49	58	53	48	56	51	48	54	50	47	46											46																	
5	64	54	48	43	62	53	47	42	52	46	42	50	45	42	49	45	41	40											40																	
6	59	49	42	37	58	48	42	37	47	41	37	45	40	36	44	40	36	35											35																	
7	55	44	37	33	53	44	37	33	42	37	32	41	36	32	40	35	32	30											30																	
8	51	40	34	29	49	40	33	29	39	33	29	38	32	29	37	32	28	27											27																	
9	47	37	30	26	46	36	30	26	35	30	26	34	29	26	34	29	25	24											24																	
10	44	34	27	23	43	33	27	23	32	27	23	32	27	23	31	26	23	22											22																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2641	2641	2641
5°	2663	2673	2671
10°	2648	2673	2611
15°	2616	2653	2380
20°	2568	2473	2653
25°	2513	2557	3496
30°	2452	3059	4161
35°	2377	3650	4203
40°	2290	3920	3053
45°	2132	3716	4521
50°	1963	3161	5526
55°	1791	3832	1745
60°	1507	2699	594
65°	907	668	554
70°	257	315	403
75°	45	77	51
80°	38	38	29
85°	19	19	19



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.9	3.3	2.7	0°	1591	1591	1591	1591	1591	
10°-20°	424.1	9.2	7.4	5°	1598	1598	1604	1604	1603	152
20°-30°	726.1	15.8	12.7	15°	1522	1546	1544	1445	1385	429
30°-40°	1021.9	22.2	17.9	25°	1372	1393	1396	1800	1909	632
40°-50°	1103.2	24.0	19.4	35°	1173	1159	1801	2097	2074	734
50°-60°	897.8	19.5	15.8	45°	908	1138	1583	1489	1926	701
60°-70°	251.4	5.5	4.4	55°	619	993	1324	1157	603	549
70°-80°	21.9	0.5	0.4	65°	231	396	170	154	141	233
80°-90°	1.6	0.0	0.0	75°	7	8	12	11	8	14
90°-100°	0.0	0.0	0.0	85°	1	1	1	2	1	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°	1302.1	28.3	22.8	165°	0	0	0	0	0	0
0°-40°	2324.1	50.5	40.8	175°	0	0	0	0	0	0
0°-60°	4325.0	94.0	75.9	180°	0	0	0	0	0	0
0°-90°	4599.9	100.0	80.7							
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°	4599.9	100.0	80.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1591	1591	1591	1591	1591
2.5°	1595	1593	1592	1591	1596
5°	1598	1598	1604	1604	1603
7.5°	1591	1599	1607	1579	1569
10°	1571	1593	1586	1567	1549
12.5°	1548	1577	1574	1525	1475
15°	1522	1546	1544	1445	1385
17.5°	1490	1510	1473	1404	1388
20°	1454	1471	1400	1461	1502
22.5°	1415	1437	1365	1612	1704
25°	1372	1393	1396	1800	1909
27.5°	1328	1332	1478	1987	2117
30°	1279	1270	1596	2126	2171
32.5°	1227	1213	1703	2132	2168
35°	1173	1159	1801	2097	2074
37.5°	1122	1139	1843	1955	1770
40°	1057	1154	1809	1652	1409
42.5°	985	1163	1727	1369	1478
45°	908	1138	1583	1489	1926
47.5°	833	1114	1379	1859	2201
50°	760	1078	1224	1986	2140
52.5°	690	1048	1248	1772	1587
55°	619	993	1324	1157	603
57.5°	543	906	1152	448	286
60°	454	790	813	243	179
62.5°	339	624	397	177	156
65°	231	396	170	154	141
67.5°	127	185	101	126	108
70°	53	55	65	87	83
72.5°	13	19	41	44	36
75°	7	8	12	11	8
77.5°	5	6	6	6	5
80°	4	4	4	4	3
82.5°	2	2	3	2	2
85°	1	1	1	2	1
87.5°	1	1	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)