

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: 109P145

Luminaire Tested: **2EP3GX-2U6T8S44M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 109P145
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-2U6T8S44M/I-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with
a 3" deep 16 cell specular low iridescent
parabolic louver.
Light Source: Two-FB31T8/TL735/6 - 2650 Lumens ea. - 31 Watts ea.
Ballast/Driver: Triad-Utrad B232I120 Electronic

Summary

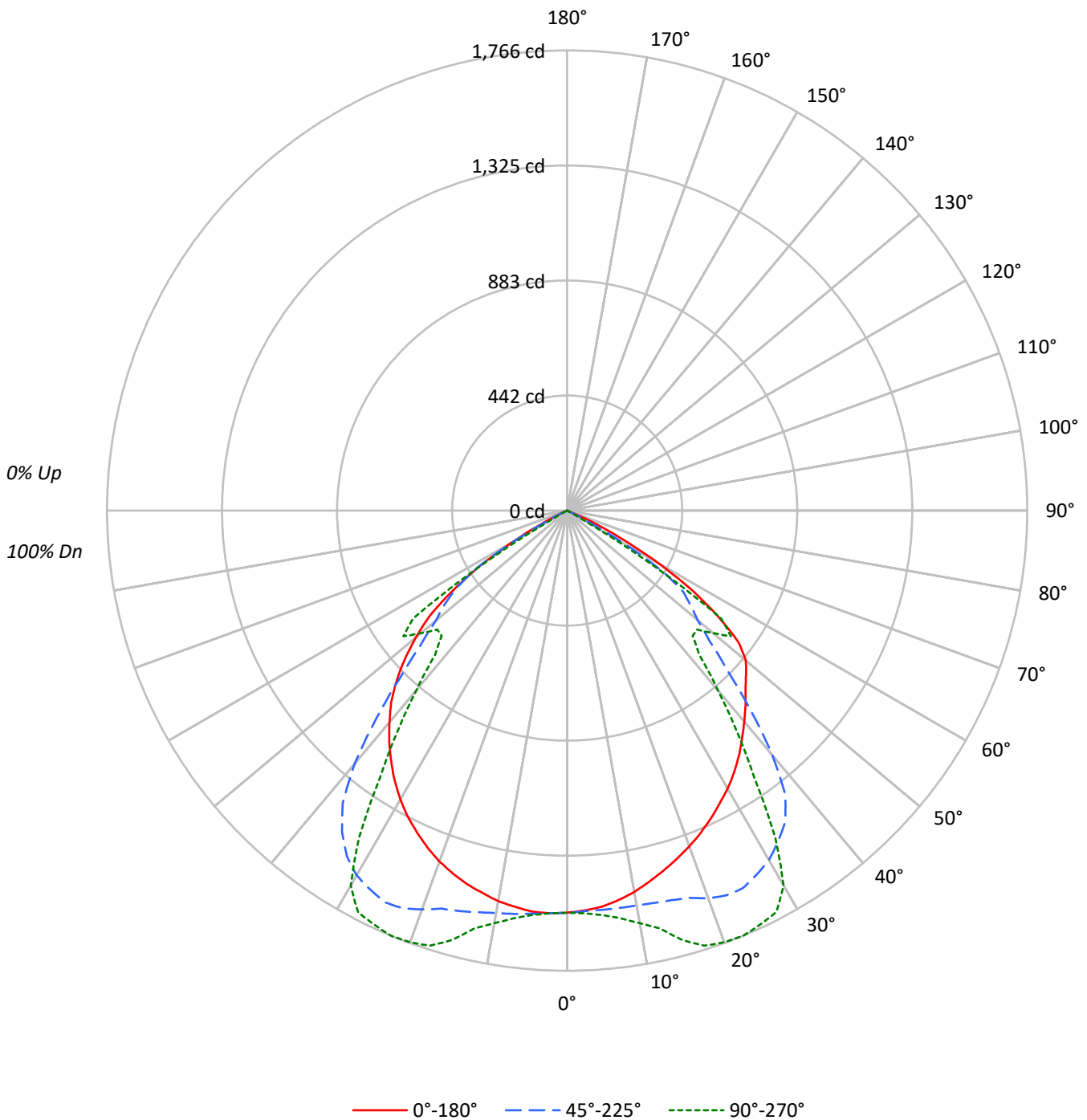
Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3406.8 lumens
Efficiency: 64.3%
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.35 / 1.33
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	0
RCR																		
0	77	77	77	77	75	75	75	75	71	71	71	68	68	68	66	66	66	64
1	72	70	68	66	70	68	66	65	66	64	63	63	62	61	61	60	59	58
2	67	63	60	57	65	62	59	56	60	57	55	58	55	54	56	54	52	51
3	62	57	53	49	61	56	52	49	54	51	48	52	50	47	51	48	46	45
4	58	51	47	43	56	50	46	43	49	45	42	48	44	42	46	43	41	40
5	53	46	42	38	52	46	41	38	45	40	37	43	40	37	42	39	37	35
6	50	42	37	34	49	42	37	34	41	36	33	40	36	33	39	35	33	32
7	46	39	34	30	45	38	33	30	37	33	30	36	33	30	36	32	29	28
8	43	35	31	27	42	35	30	27	34	30	27	33	30	27	33	29	27	26
9	40	33	28	25	40	32	28	25	32	27	24	31	27	24	30	27	24	23
10	38	30	26	22	37	30	25	22	29	25	22	29	25	22	28	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5488	5488	5488
5°	5449	5563	5517
10°	5367	5808	5497
15°	5266	6282	5465
20°	5190	6673	5424
25°	5118	6880	5349
30°	5060	6822	5257
35°	4989	5437	5111
40°	4908	4179	4927
45°	4869	3426	4663
50°	4953	4045	4189
55°	4372	4465	3336
60°	2881	391	1729
65°	1010	50	353
70°	42	31	31
75°	27	27	14
80°	20	20	0
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	147.8	4.3	2.8	0°	1543	1543	1543	1543	1543	
10°-20°	447.0	13.1	8.4	5°	1526	1538	1558	1553	1545	144
20°-30°	726.2	21.3	13.7	15°	1430	1548	1706	1591	1484	404
30°-40°	834.1	24.5	15.7	25°	1304	1598	1753	1658	1363	601
40°-50°	695.9	20.4	13.1	35°	1149	1459	1252	1506	1177	718
50°-60°	498.6	14.6	9.4	45°	968	872	681	906	927	751
60°-70°	55.1	1.6	1.0	55°	705	544	720	520	538	613
70°-80°	2.0	0.1	0.0	65°	120	13	6	15	42	142
80°-90°	0.1	0.0	0.0	75°	2	2	2	2	1	2
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°	1321.0	38.8	24.9	165°	0	0	0	0	0	0
0°-40°	2155.1	63.3	40.7	175°	0	0	0	0	0	0
0°-60°	3349.6	98.3	63.2	180°	0	0	0	0	0	0
0°-90°	3406.8	100.0	64.3							
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°	3406.8	100.0	64.3							



TEST NUMBER: 109P145

CATALOG NUMBER: 2EP3GX-2U6T8S44M/I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1543	1543	1543	1543	1543	1543	1543	1543	1543
2.5°	1536	1535	1539	1544	1547	1547	1547	1545	1547
5°	1526	1526	1538	1551	1558	1558	1553	1546	1545
7.5°	1508	1512	1538	1564	1578	1574	1561	1543	1534
10°	1486	1495	1539	1585	1608	1600	1568	1535	1522
12.5°	1458	1475	1542	1611	1642	1629	1579	1526	1503
15°	1430	1457	1548	1654	1706	1671	1591	1516	1484
17.5°	1401	1439	1558	1700	1751	1723	1602	1503	1460
20°	1371	1422	1584	1719	1763	1749	1629	1490	1433
22.5°	1339	1404	1598	1711	1766	1748	1652	1475	1400
25°	1304	1386	1598	1702	1753	1742	1658	1457	1363
27.5°	1267	1369	1575	1681	1738	1717	1639	1436	1324
30°	1232	1353	1549	1651	1661	1680	1616	1414	1280
32.5°	1192	1339	1506	1525	1486	1570	1573	1392	1231
35°	1149	1316	1459	1327	1252	1375	1506	1364	1177
37.5°	1103	1285	1376	1110	1072	1154	1414	1326	1121
40°	1057	1246	1225	935	900	984	1269	1277	1061
42.5°	1013	1196	1046	777	751	828	1086	1217	1000
45°	968	1136	872	661	681	717	906	1140	927
47.5°	931	1050	742	625	676	674	762	1047	846
50°	895	943	653	638	731	689	658	924	757
52.5°	829	819	596	669	792	719	593	770	667
55°	705	654	544	623	720	647	520	586	538
57.5°	568	480	433	412	388	438	408	399	400
60°	405	306	247	149	55	169	233	229	243
62.5°	246	156	74	15	10	22	76	111	115
65°	120	68	13	6	6	7	15	44	42
67.5°	11	17	5	4	5	4	5	13	6
70°	4	4	3	3	3	4	3	3	3
72.5°	3	3	2	2	2	2	2	3	2
75°	2	2	2	2	2	2	2	2	1
77.5°	1	2	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	0	1	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)