

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: 109P166

Luminaire Tested: **2P2GX-2U6T8S66I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 109P166
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8S66I-PAF
Description: 2 X 2 Recessed Troffer with a 2" deep 36 cell
semi-specular low iridescent parabolic louver.
Light Source: Two-FB31T8/TL735 - 2600 Lumens ea. - 31 Watts ea.
Ballast/Driver: Triad B232I120RH Electronic; L.O.B.F.= 87.78

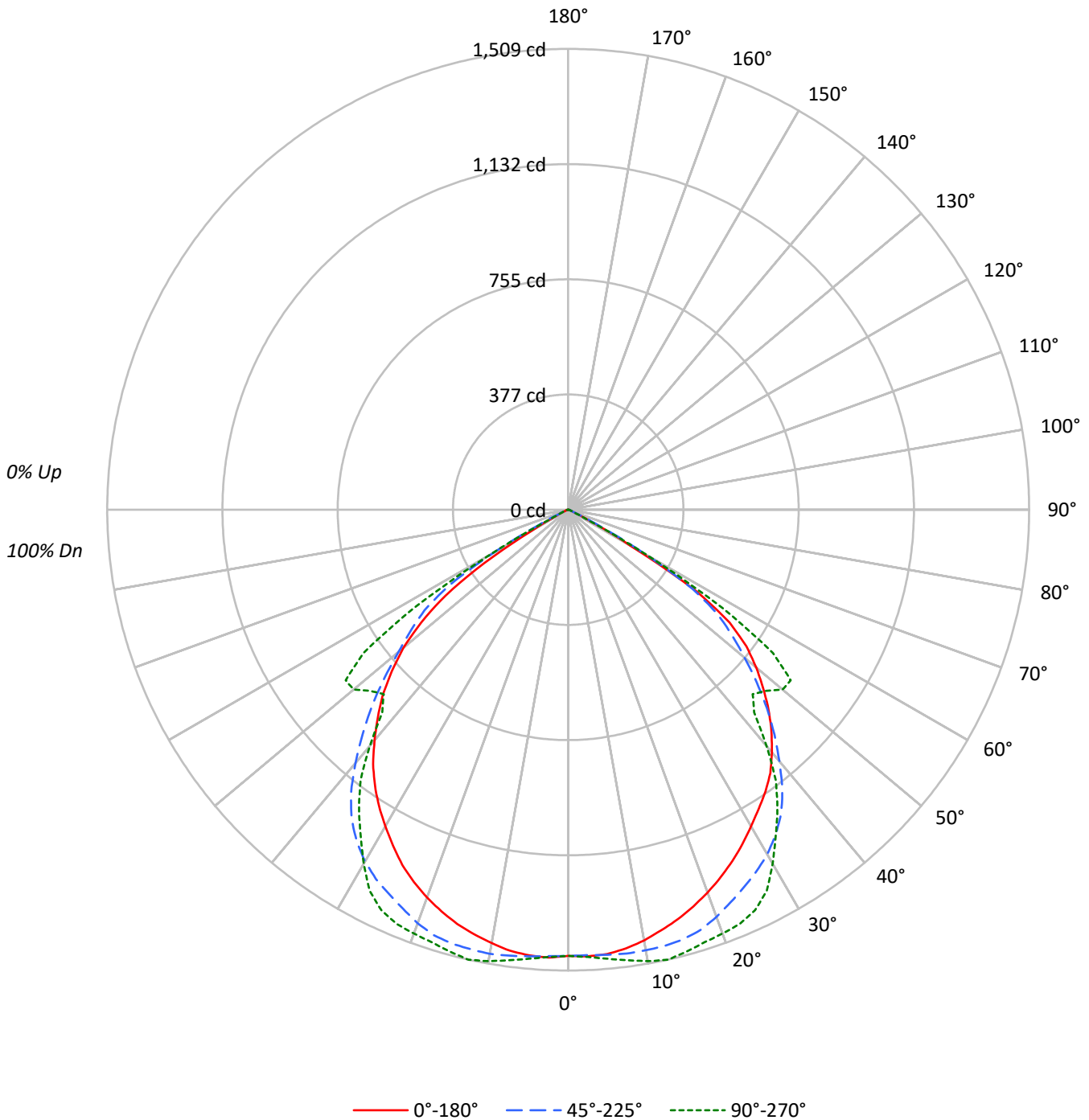
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3232.9 lumens
Efficiency: 62.2%
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.34
Luminous Opening: Rectangular (W 1.73' x L: 1.75' 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	74	74	74	74	72	72	72	72	69	69	69		66	66	66		63	63	63	62
1	69	67	65	63	68	66	64	62	63	62	60		61	60	59		59	58	57	56
2	64	60	57	54	63	59	56	54	57	55	52		55	53	51		53	52	50	49
3	60	54	50	47	58	53	50	46	52	48	46		50	47	45		49	46	44	43
4	55	49	44	41	54	48	44	41	47	43	40		45	42	40		44	41	39	38
5	51	44	39	36	50	44	39	36	42	38	35		41	38	35		40	37	35	33
6	47	40	35	32	46	40	35	32	39	34	31		38	34	31		37	33	31	30
7	44	37	32	28	43	36	31	28	35	31	28		34	31	28		34	30	28	27
8	41	34	29	25	40	33	29	25	32	28	25		32	28	25		31	27	25	24
9	39	31	26	23	38	31	26	23	30	26	23		29	25	23		29	25	23	22
10	36	29	24	21	35	28	24	21	28	24	21		27	23	21		27	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5197	5197	5197
5°	5217	5270	5231
10°	5172	5421	5205
15°	5111	5516	5170
20°	5050	5591	5114
25°	4984	5679	5039
30°	4916	5496	4916
35°	4889	5185	4790
40°	4815	4690	4578
45°	4668	4296	4316
50°	4444	5069	3896
55°	4000	5073	3039
60°	1650	2113	996
65°	219	194	151
70°	94	94	83
75°	69	69	69
80°	61	82	61
85°	82	82	82



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	140.1	4.3	2.7	0°	1461	1461	1461	1461	1461	
10°-20°	410.7	12.7	7.9	5°	1461	1463	1476	1468	1465	138
20°-30°	631.6	19.5	12.1	15°	1388	1456	1498	1471	1404	391
30°-40°	740.0	22.9	14.2	25°	1270	1363	1447	1388	1284	585
40°-50°	699.6	21.6	13.5	35°	1126	1215	1194	1236	1103	703
50°-60°	535.8	16.6	10.3	45°	928	920	854	907	858	714
60°-70°	66.9	2.1	1.3	55°	645	598	818	574	490	533
70°-80°	6.1	0.2	0.1	65°	26	35	23	33	18	59
80°-90°	2.2	0.1	0.0	75°	5	6	5	6	5	6
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	2
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°	1182.4	36.6	22.7	165°	0	0	0	0	0	0
0°-40°	1922.4	59.5	37.0	175°	0	0	0	0	0	0
0°-60°	3157.7	97.7	60.7	180°	0	0	0	0	0	0
0°-90°	3232.9	100.0	62.2							
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°	3232.9	100.0	62.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1461	1461	1461	1461	1461	1461	1461	1461	1461
2.5°	1464	1458	1460	1462	1466	1464	1463	1464	1468
5°	1461	1454	1463	1471	1476	1473	1468	1465	1465
7.5°	1449	1447	1466	1482	1488	1485	1473	1462	1457
10°	1432	1436	1465	1490	1501	1495	1477	1453	1441
12.5°	1410	1421	1463	1498	1509	1504	1474	1442	1424
15°	1388	1404	1456	1493	1498	1501	1471	1428	1404
17.5°	1362	1386	1443	1475	1485	1484	1461	1411	1379
20°	1334	1365	1419	1458	1477	1467	1441	1392	1351
22.5°	1303	1341	1391	1444	1468	1455	1414	1368	1320
25°	1270	1315	1363	1420	1447	1433	1388	1341	1284
27.5°	1235	1286	1335	1387	1407	1403	1363	1310	1241
30°	1197	1251	1303	1334	1338	1352	1330	1274	1197
32.5°	1161	1213	1263	1256	1264	1277	1288	1230	1152
35°	1126	1174	1215	1180	1194	1202	1236	1183	1103
37.5°	1087	1136	1152	1104	1116	1128	1168	1134	1049
40°	1037	1091	1075	1016	1010	1044	1083	1080	986
42.5°	985	1038	999	906	901	937	996	1017	922
45°	928	976	920	816	854	849	907	944	858
47.5°	866	901	837	784	878	816	815	865	783
50°	803	822	753	800	916	827	725	775	704
52.5°	735	733	676	801	918	818	648	669	607
55°	645	614	598	736	818	745	574	539	490
57.5°	499	448	483	555	599	562	465	372	325
60°	232	241	293	311	297	312	282	200	140
62.5°	84	91	117	119	62	119	111	77	46
65°	26	30	35	29	23	30	33	26	18
67.5°	14	14	15	15	14	15	15	13	11
70°	9	10	10	10	9	10	10	9	8
72.5°	7	7	8	7	7	7	7	7	6
75°	5	6	6	6	5	6	6	5	5
77.5°	4	4	5	4	4	4	4	4	4
80°	3	3	4	3	4	3	3	3	3
82.5°	3	3	3	3	3	3	3	2	2
85°	2	2	2	2	2	2	2	2	2
87.5°	2	2	2	1	2	2	1	1	1
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)