

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: 155P106

Luminaire Tested: **2P5GX-317S34M/I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 155P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5GX-317S34M/I
Description: 2 X 2 Recessed Troffer with a 12 cell
specular low iridescent precision
cell II parabolic louver.
Light Source: Three-F17T8/735 - 1350 Lumens ea. - 17 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

Summary

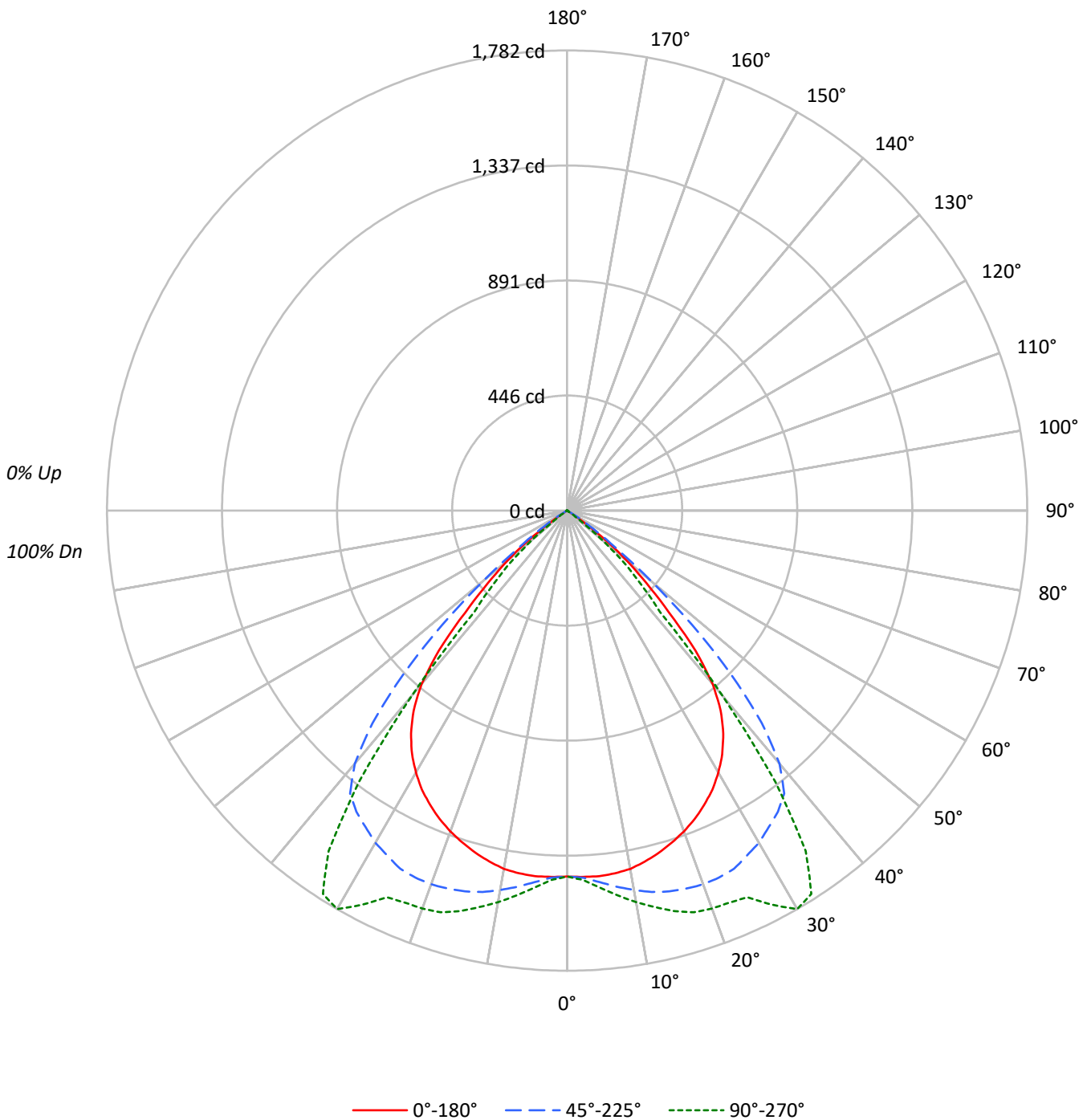
Lumens per Lamp: 1350 (3 lamps)
Luminaire Lumens: 2738.6 lumens
Efficiency: 67.6%
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.5 / 1.36
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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	50	30	10	0	
RCR																						
0	80	80	80	80	79	79	79	79	75	75	75	72	72	72	69	69	69	68				
1	76	74	72	70	74	73	71	69	70	68	67	67	66	65	65	64	63	62				
2	72	68	64	62	70	66	64	61	64	62	60	62	60	58	60	59	57	56				
3	67	62	58	55	66	61	57	54	59	56	53	57	55	53	56	54	52	51				
4	63	57	52	49	61	56	52	49	54	51	48	53	50	47	52	49	47	46				
5	59	52	47	44	57	51	47	44	50	46	43	49	45	43	48	45	42	41				
6	55	48	43	39	54	47	43	39	46	42	39	45	41	39	44	41	38	37				
7	51	44	39	36	50	43	39	36	43	38	35	42	38	35	41	38	35	34				
8	48	41	36	33	47	40	36	32	39	35	32	39	35	32	38	34	32	31				
9	45	38	33	30	44	37	33	30	37	32	30	36	32	29	35	32	29	28				
10	43	35	30	27	42	35	30	27	34	30	27	33	30	27	33	29	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4995	4995	4995
5°	5029	5110	5188
10°	5044	5341	5513
15°	5007	5573	5861
20°	4960	5777	6153
25°	4889	5951	6426
30°	4767	6045	7254
35°	4536	6124	6929
40°	4036	5886	4298
45°	2782	4487	2014
50°	1640	2325	954
55°	406	762	61
60°	42	56	35
65°	25	25	33
70°	21	21	21
75°	0	14	14
80°	0	0	20
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°	139.1	5.1	3.4	0°	1417	1417	1417	1417	1417	
10°-20°	427.5	15.6	10.6	5°	1421	1426	1444	1460	1466	135
20°-30°	694.9	25.4	17.2	15°	1372	1435	1527	1588	1606	387
30°-40°	849.0	31.0	21.0	25°	1257	1384	1530	1630	1652	578
40°-50°	521.7	19.0	12.9	35°	1054	1235	1423	1604	1610	652
50°-60°	102.1	3.7	2.5	45°	558	812	900	444	404	438
60°-70°	3.4	0.1	0.1	55°	66	138	124	33	10	90
70°-80°	0.9	0.0	0.0	65°	3	3	3	3	4	3
80°-90°	0.0	0.0	0.0	75°	0	1	1	1	1	1
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°	1261.5	46.1	31.1	165°	0	0	0	0	0	0
0°-40°	2110.5	77.1	52.1	175°	0	0	0	0	0	0
0°-60°	2734.3	99.8	67.5	180°	0	0	0	0	0	0
0°-90°	2738.6	100.0	67.6							
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°	2738.6	100.0	67.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417	1417	1417	1417	1417
2.5°	1420	1419	1423	1429	1432
5°	1421	1426	1444	1460	1466
7.5°	1417	1434	1469	1494	1503
10°	1409	1441	1492	1529	1540
12.5°	1392	1441	1513	1558	1573
15°	1372	1435	1527	1588	1606
17.5°	1348	1428	1535	1614	1631
20°	1322	1418	1540	1631	1640
22.5°	1292	1404	1538	1627	1643
25°	1257	1384	1530	1630	1652
27.5°	1218	1359	1507	1639	1721
30°	1171	1328	1485	1688	1782
32.5°	1118	1289	1453	1694	1760
35°	1054	1235	1423	1604	1610
37.5°	977	1169	1381	1405	1324
40°	877	1086	1279	1096	934
42.5°	735	976	1116	758	533
45°	558	812	900	444	404
47.5°	416	626	656	329	299
50°	299	457	424	224	174
52.5°	189	298	231	116	59
55°	66	138	124	33	10
57.5°	8	27	45	8	7
60°	6	6	8	6	5
62.5°	4	4	4	4	4
65°	3	3	3	3	4
67.5°	3	3	2	2	2
70°	2	2	2	2	2
72.5°	1	1	1	1	2
75°	0	1	1	1	1
77.5°	0	0	0	1	0
80°	0	0	0	0	1
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)