

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: P30950

Luminaire Tested: **2GC8-317A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30950
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-317A19/156-UNV-EB81
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, TYPE #19,
0.156" THICK
Light Source: (3) T8 LINEAR FLUORESCENT LAMPS 3500K
Ballast/Driver: -
QUICKTRONICS QTP3x32T8/UNV ISN-SC

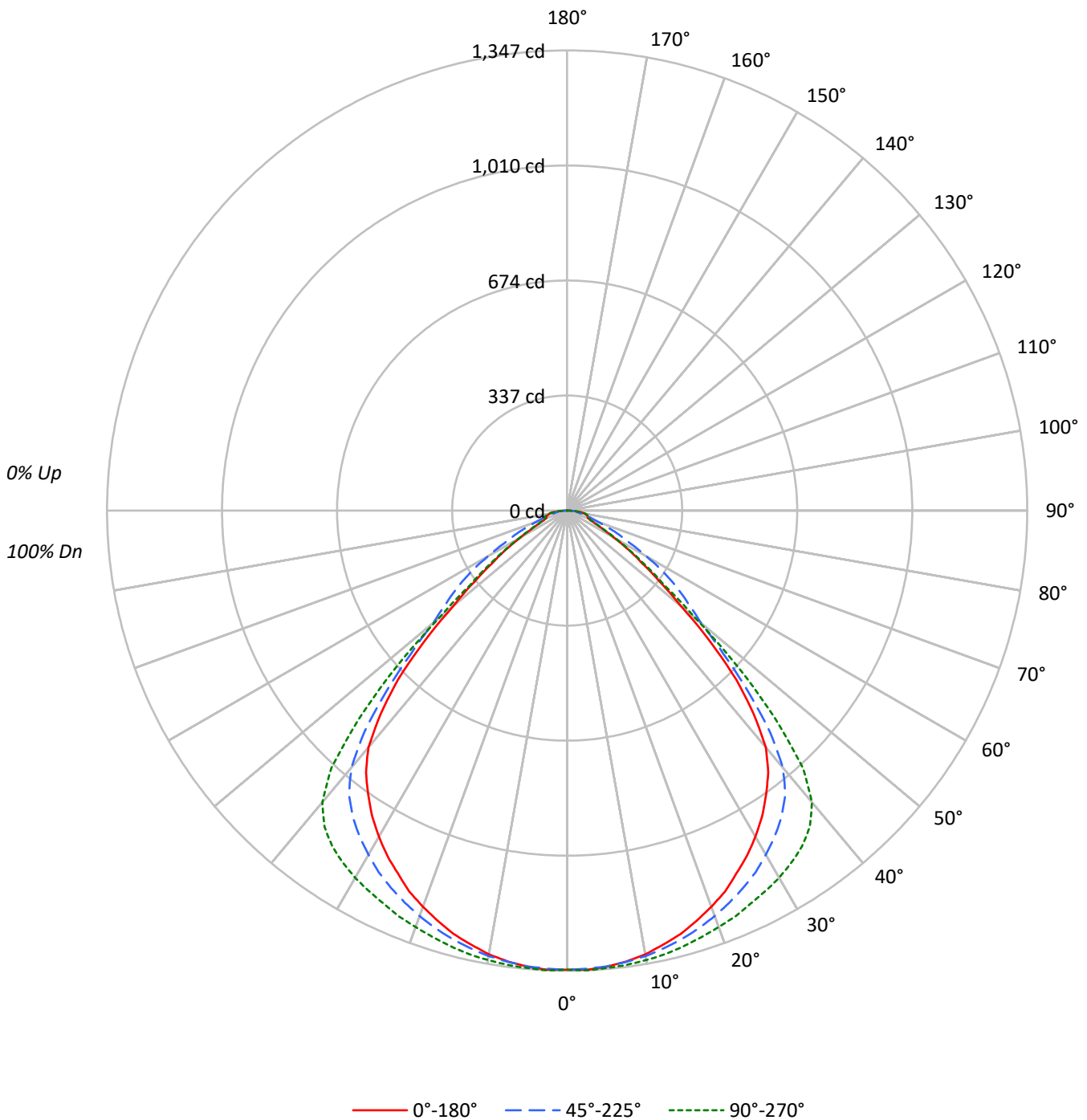
Summary

Lumens per Lamp: 1350 (3 lamps)
Luminaire Lumens: 2940.0 lumens
Efficiency: 72.6%
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.32
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4724	4724	4724
5°	4728	4724	4742
10°	4707	4725	4768
15°	4668	4723	4803
20°	4616	4724	4851
25°	4545	4727	4925
30°	4472	4720	5037
35°	4355	4694	5145
40°	4152	4506	5116
45°	3479	3718	4280
50°	2379	2794	2674
55°	1636	2408	1728
60°	1111	1884	1153
65°	757	1397	782
70°	668	976	709
75°	856	801	910
80°	1053	688	1093
85°	1169	1049	1250



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	127.5	4.3	3.1	0°	1344	1344	1344	1344	1344	
10°-20°	367.0	12.5	9.1	5°	1340	1338	1339	1342	1344	127
20°-30°	563.1	19.2	13.9	15°	1283	1286	1298	1314	1320	362
30°-40°	685.7	23.3	16.9	25°	1172	1188	1219	1255	1270	541
40°-50°	590.5	20.1	14.6	35°	1015	1036	1094	1166	1199	633
50°-60°	315.7	10.7	7.8	45°	700	734	748	853	861	527
60°-70°	163.5	5.6	4.0	55°	267	351	393	365	282	248
70°-80°	92.9	3.2	2.3	65°	91	187	168	193	94	98
80°-90°	34.3	1.2	0.8	75°	63	117	59	117	67	64
90°-100°	0.0	0.0	0.0	85°	29	40	26	38	31	30
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1057.5	36.0	26.1							
0°-40°	1743.2	59.3	43.0							
0°-60°	2649.3	90.1	65.4							
0°-90°	2940.0	100.0	72.6							
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°	2940.0	100.0	72.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1344	1344	1344	1344	1344
2.5°	1345	1343	1342	1345	1347
5°	1340	1338	1339	1342	1344
7.5°	1331	1330	1332	1338	1341
10°	1319	1319	1324	1331	1336
12.5°	1301	1304	1312	1324	1330
15°	1283	1286	1298	1314	1320
17.5°	1259	1264	1282	1300	1309
20°	1234	1243	1263	1287	1297
22.5°	1207	1217	1242	1271	1286
25°	1172	1188	1219	1255	1270
27.5°	1140	1156	1194	1237	1256
30°	1102	1119	1163	1217	1241
32.5°	1062	1081	1131	1193	1222
35°	1015	1036	1094	1166	1199
37.5°	967	987	1049	1131	1167
40°	905	924	982	1076	1115
42.5°	809	841	879	985	1021
45°	700	734	748	853	861
47.5°	569	619	620	699	681
50°	435	503	511	553	489
52.5°	341	414	446	444	358
55°	267	351	393	365	282
57.5°	212	296	333	304	218
60°	158	254	268	258	164
62.5°	120	219	210	223	125
65°	91	187	168	193	94
67.5°	74	160	129	170	76
70°	65	143	95	153	69
72.5°	63	132	75	135	68
75°	63	117	59	117	67
77.5°	58	97	44	96	61
80°	52	73	34	75	54
82.5°	43	53	28	53	44
85°	29	40	26	38	31
87.5°	14	23	16	21	15
90°	0	0	0	0	0

(END OF REPORT)