

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: P30292

Luminaire Tested: **ART-2OP-217-WO-UNV-EB81**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30292
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ART-2OP-217-WO-UNV-EB81
Description: METALUX RECESSED TROFFER & PARABOLIC FLUORESCENT 2X2 RETROFIT KIT WITH WHITE OPTICS REFLECTOR, 6 CELL 2" NOMINAL DEEP STEEL LOUVER WITH FACETED BLADES, KIT INSTALLED IN GT TROFFER 2X2
Light Source: TWO LINEAR FLUORESCENT LAMPS, F17T8 17W - 1300 LUMENS EA PHILIPS 17T8/TL841 17W
Ballast/Driver: -
GE232MAX-N/ULTRA

Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2347.6 lumens
Efficiency: 90.3%
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.39 / 1.42
Luminous Opening: Rectangular (W 1.81' x L: 1.73' x H: 0')
CIE Type: Direct

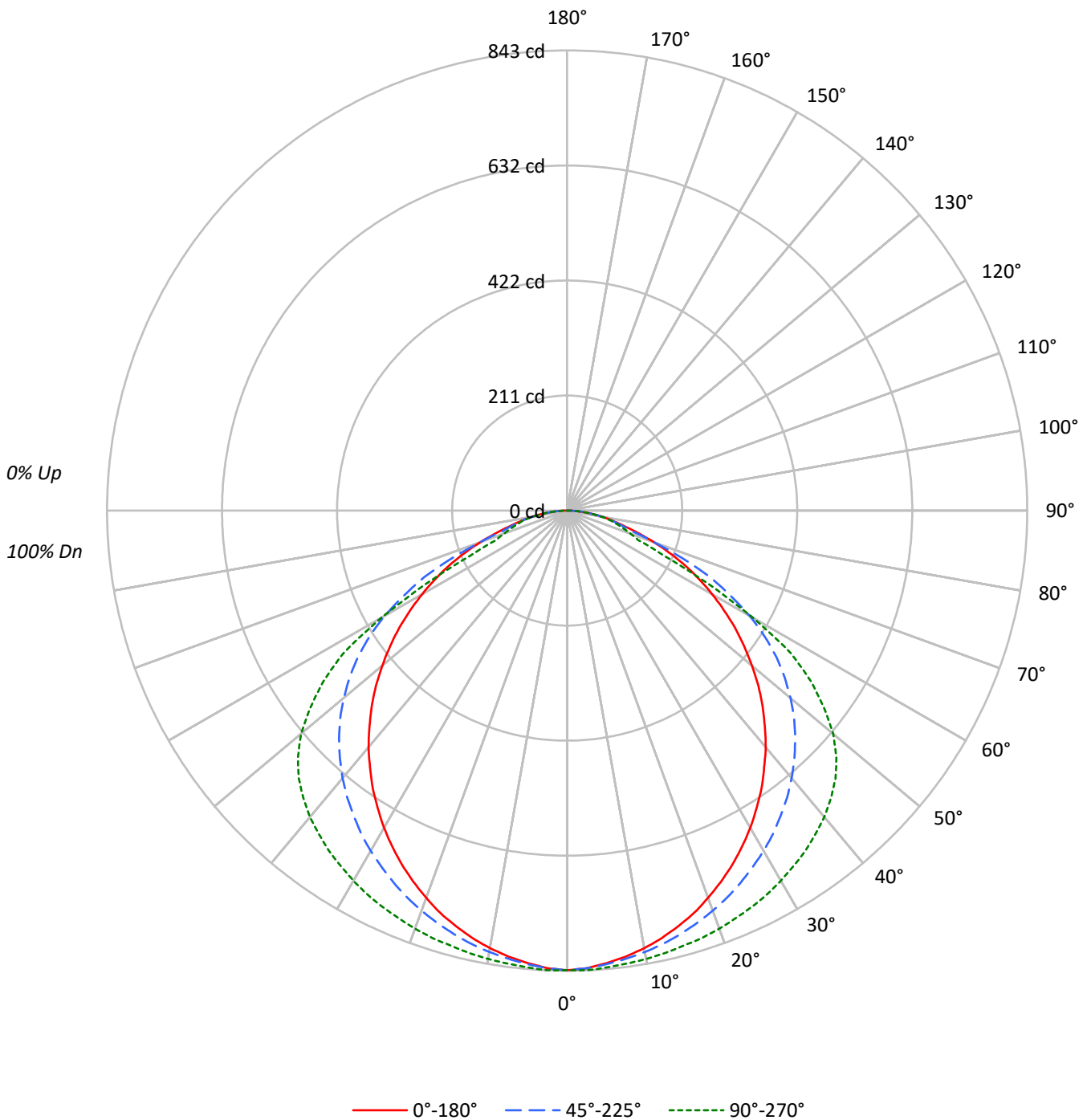
Input Watts (W): 30.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	105	105	105	105	100	100	100	96	96	96	92	92	92	90				
1	99	95	91	88	96	93	89	86	89	86	84	85	83	81	82	80	79	77				
2	90	83	77	72	88	81	76	71	78	74	70	75	71	68	72	69	66	65				
3	82	73	66	60	80	72	65	60	69	63	59	66	62	58	64	60	57	55				
4	75	65	57	51	73	64	56	51	61	55	50	59	54	49	57	53	49	47				
5	69	58	50	44	67	57	49	44	55	48	43	53	47	43	52	46	42	40				
6	64	52	44	38	62	51	44	38	50	43	38	48	42	38	47	41	37	35				
7	59	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31				
8	55	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	29	28				
9	51	39	32	27	50	39	32	27	38	31	27	37	31	27	36	31	27	25				
10	48	36	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2892	2892	2892
5°	2868	2875	2896
10°	2839	2863	2909
15°	2802	2855	2933
20°	2759	2851	2979
25°	2713	2850	3035
30°	2661	2855	3105
35°	2604	2859	3191
40°	2538	2869	3286
45°	2458	2871	3376
50°	2362	2853	3398
55°	2251	2802	3263
60°	2109	2651	2699
65°	1942	2349	1593
70°	1697	1697	1235
75°	1407	1340	1234
80°	1305	1266	1266
85°	1182	1143	1064



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	79.3	3.4	3.1	0°	842	842	842	842	842	
10°-20°	227.2	9.7	8.7	5°	832	833	834	837	840	79
20°-30°	348.0	14.8	13.4	15°	788	792	803	816	825	222
30°-40°	429.1	18.3	16.5	25°	716	725	752	782	801	330
40°-50°	457.9	19.5	17.6	35°	621	638	682	732	761	388
50°-60°	410.2	17.5	15.8	45°	506	531	591	656	695	390
60°-70°	252.1	10.7	9.7	55°	376	405	468	515	545	335
70°-80°	111.3	4.7	4.3	65°	239	266	289	232	196	236
80°-90°	32.5	1.4	1.3	75°	106	112	101	95	93	117
90°-100°	0.0	0.0	0.0	85°	30	30	29	27	27	34
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°	654.5	27.9	25.2							
0°-40°	1083.6	46.2	41.7							
0°-60°	1951.7	83.1	75.1							
0°-90°	2347.6	100.0	90.3							
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°	2347.6	100.0	90.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842	842	842	842	842
2.5°	839	838	839	841	843
5°	832	833	834	837	840
7.5°	824	825	828	833	837
10°	814	816	821	828	834
12.5°	802	805	813	823	830
15°	788	792	803	816	825
17.5°	773	778	792	809	821
20°	755	762	780	801	815
22.5°	736	744	767	792	808
25°	716	725	752	782	801
27.5°	694	705	736	771	793
30°	671	684	720	759	783
32.5°	646	661	702	746	772
35°	621	638	682	732	761
37.5°	593	612	662	716	747
40°	566	586	640	698	733
42.5°	536	559	616	679	715
45°	506	531	591	656	695
47.5°	475	501	564	630	669
50°	442	471	534	599	636
52.5°	409	439	502	561	593
55°	376	405	468	515	545
57.5°	341	371	429	466	486
60°	307	337	386	405	393
62.5°	273	301	337	319	293
65°	239	266	289	232	196
67.5°	203	227	229	159	141
70°	169	188	169	128	123
72.5°	136	149	123	111	107
75°	106	112	101	95	93
77.5°	85	86	83	80	80
80°	66	66	64	63	64
82.5°	47	47	46	44	44
85°	30	30	29	27	27
87.5°	15	14	13	12	12
90°	0	0	0	0	0

(END OF REPORT)