

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: 220P232

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P232
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ART-2OP-217-UNV-EB81
Description: METALUX RECESSED TROFFER & PARABOLIC FLUORESCENT 2X2 RETROFIT KIT WITH WHITE PAINTED REFLECTOR, 6 CELL 2" NOMINAL DEEP STEEL LOUVER WITH FACETED BLADES, KIT INSTALLED IN GT TROFFER
Light Source: TWO LINEAR FLUORESCENT LAMPS, F17T8 17W - 1300 LUMENS EA
Ballast/Driver: -
GE232MAX-N/ULTRA

Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2262.9 lumens
Efficiency: 87.0%
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.43 / 1.42
Luminous Opening: Rectangular (W 1.77' x L: 1.81' x H: 0')
CIE Type: Direct

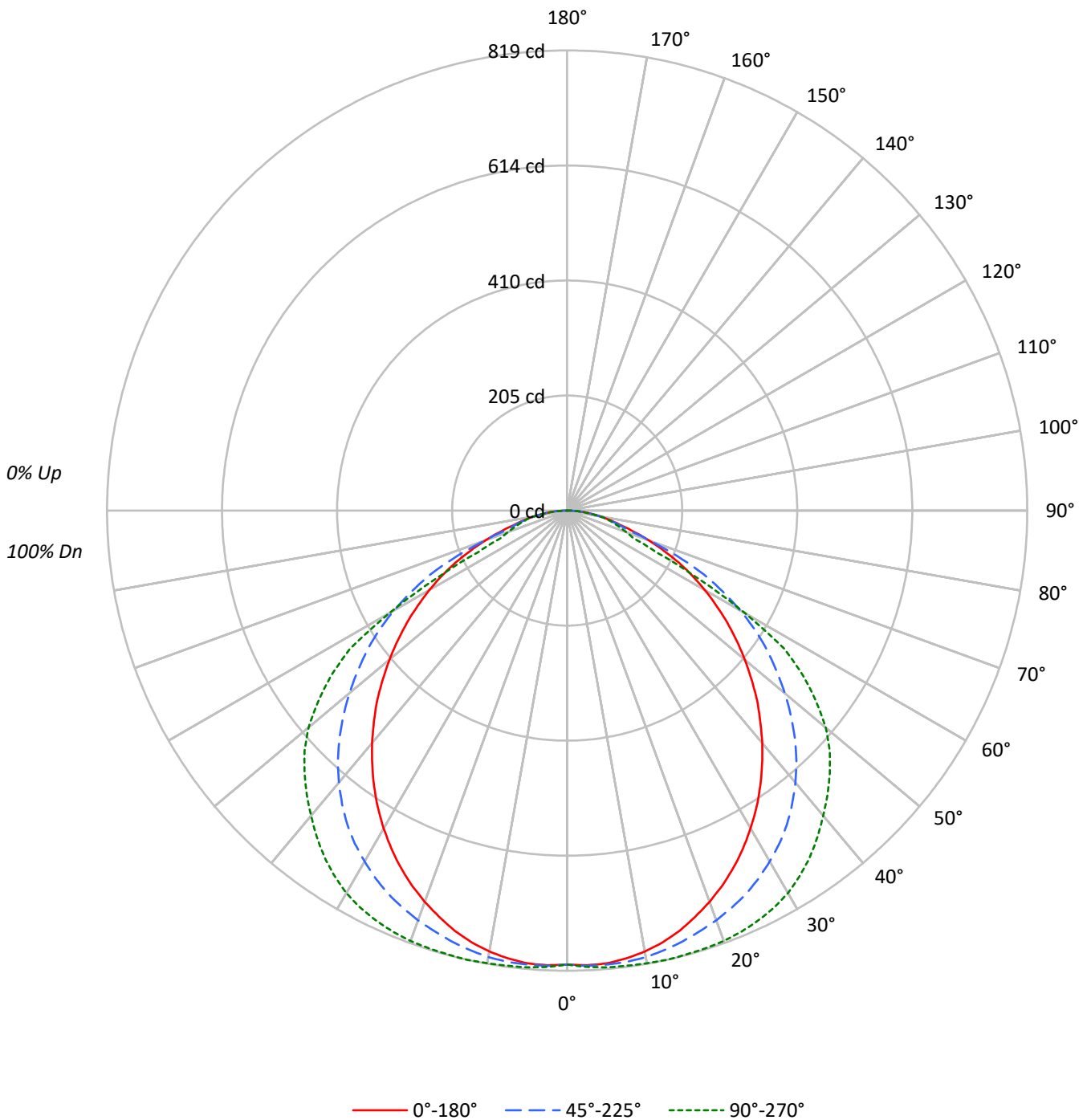
Input Watts (W): 30
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	101	101	101	101	97	97	97	93	93	93	89	89	89	87
1	95	91	88	85	93	89	86	83	86	83	81	82	80	78	79	78	76	74
2	87	80	75	70	85	79	73	69	76	71	67	73	69	66	70	67	64	63
3	80	71	64	59	77	69	63	58	67	61	57	64	60	56	62	58	55	53
4	73	63	55	50	71	62	55	49	60	54	49	58	52	48	56	51	47	46
5	67	56	49	43	65	55	48	43	53	47	42	52	46	42	50	45	41	40
6	62	51	43	38	60	50	43	37	48	42	37	47	41	37	45	40	36	35
7	57	46	38	33	56	45	38	33	44	37	33	43	37	33	41	36	32	31
8	53	42	35	30	52	41	34	29	40	34	29	39	33	29	38	33	29	27
9	50	38	31	27	49	38	31	26	37	31	26	36	30	26	35	30	26	24
10	47	35	29	24	46	35	28	24	34	28	24	33	28	24	33	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2710	2710	2710
5°	2723	2730	2747
10°	2714	2748	2786
15°	2687	2757	2840
20°	2645	2769	2909
25°	2594	2786	2979
30°	2529	2792	3044
35°	2452	2792	3083
40°	2364	2767	3104
45°	2267	2718	3135
50°	2155	2640	3136
55°	2035	2543	2999
60°	1898	2388	2455
65°	1738	2127	1389
70°	1510	1530	1098
75°	1257	1205	1114
80°	1159	1139	1159
85°	1077	1039	1000



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	77.3	3.4	3.0	0°	808	808	808	808	808	
10°-20°	224.4	9.9	8.6	5°	809	809	811	813	816	77
20°-30°	346.7	15.3	13.3	15°	774	779	794	809	818	218
30°-40°	423.8	18.7	16.3	25°	701	715	753	788	805	323
40°-50°	440.1	19.4	16.9	35°	599	625	682	730	753	374
50°-60°	385.9	17.1	14.8	45°	478	515	573	627	661	368
60°-70°	232.4	10.3	8.9	55°	348	387	435	486	513	311
70°-80°	102.0	4.5	3.9	65°	219	245	268	213	175	216
80°-90°	30.4	1.3	1.2	75°	97	103	93	88	86	107
90°-100°	0.0	0.0	0.0	85°	28	28	27	26	26	31
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°	648.4	28.7	24.9							
0°-40°	1072.2	47.4	41.2							
0°-60°	1898.2	83.9	73.0							
0°-90°	2262.9	100.0	87.0							
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°	2262.9	100.0	87.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808	808	808	808	808
2.5°	810	809	811	811	813
5°	809	809	811	813	816
7.5°	804	805	810	813	817
10°	797	799	807	813	818
12.5°	787	790	801	812	819
15°	774	779	794	809	818
17.5°	758	765	785	806	817
20°	741	750	776	802	815
22.5°	722	733	765	795	811
25°	701	715	753	788	805
27.5°	678	695	738	778	797
30°	653	673	721	765	786
32.5°	627	649	703	749	771
35°	599	625	682	730	753
37.5°	570	599	658	707	732
40°	540	572	632	682	709
42.5°	509	544	604	655	686
45°	478	515	573	627	661
47.5°	445	484	540	598	634
50°	413	453	506	566	601
52.5°	380	420	470	529	559
55°	348	387	435	486	513
57.5°	315	352	397	439	459
60°	283	317	356	381	366
62.5°	251	281	312	296	268
65°	219	245	268	213	175
67.5°	186	207	212	143	127
70°	154	171	156	117	112
72.5°	124	136	112	101	98
75°	97	103	93	88	86
77.5°	78	78	76	74	74
80°	60	60	59	59	60
82.5°	43	43	42	42	41
85°	28	28	27	26	26
87.5°	13	13	13	12	12
90°	0	0	0	0	0

(END OF REPORT)