

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: P30414

Luminaire Tested: **ART-2ARC-232L-UNV-EB81**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30414
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ART-2ARC-232L-UNV-EB81
Description: METALUX RECESSED TROFFER & PARABOLIC FLUORESCENT 2X4 RETROFIT KIT WITH WHITE PAINTED REFLECTOR, DOORFRAME AND DUAL LENS APPEARANCE, KIT WAS INSTALLED IN A GT TROFFER HOUSING
Light Source: (2) TWO LINEAR FLUORESCENT LAMPS, F32T8 32W - 2850 LUMENS EA, 3500K
Ballast/Driver: -
GE232MAX-N/ULTRA

Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4778.0 lumens
Efficiency: 83.8%
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.75' x L: 3.75' x H: 0')
CIE Type: Direct

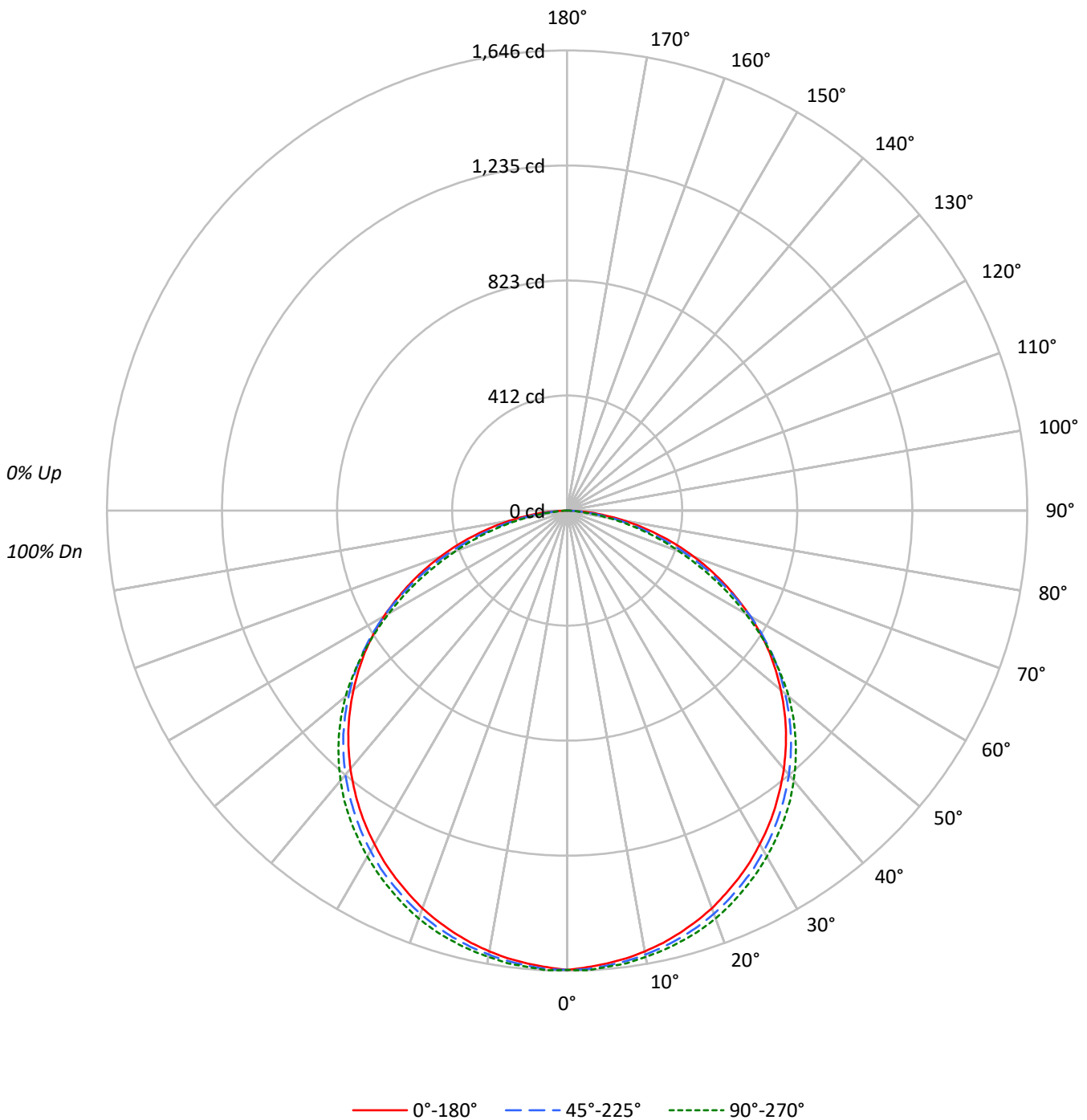
Input Watts (W): 52.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	100	100	100	100	97	97	97	97	93	93	93	89	89	89	86	86	86	84
1	91	87	84	80	89	85	82	79	82	79	77	78	76	74	75	74	72	70
2	83	76	70	65	81	74	69	65	71	67	63	69	65	62	66	63	60	58
3	75	67	60	54	73	65	59	54	63	57	53	60	56	52	58	54	51	49
4	69	59	51	46	67	58	51	45	56	50	45	54	48	44	52	47	44	42
5	63	53	45	39	62	52	44	39	50	43	39	48	43	38	47	42	38	36
6	58	47	40	34	57	46	39	34	45	39	34	43	38	33	42	37	33	31
7	54	43	35	30	53	42	35	30	41	34	30	40	34	30	38	33	29	28
8	50	39	32	27	49	38	32	27	37	31	27	36	31	26	35	30	26	25
9	47	36	29	24	46	35	29	24	34	28	24	33	28	24	32	27	24	22
10	44	33	26	22	43	33	26	22	32	26	22	31	25	22	30	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2695	2695	2695
5°	2677	2690	2697
10°	2666	2686	2700
15°	2654	2683	2705
20°	2643	2679	2711
25°	2626	2671	2707
30°	2610	2663	2706
35°	2597	2653	2707
40°	2582	2642	2700
45°	2568	2626	2681
50°	2547	2598	2641
55°	2525	2562	2551
60°	2483	2487	2418
65°	2410	2352	2251
70°	2312	2177	2038
75°	2174	1939	1793
80°	1965	1615	1407
85°	1656	1054	753



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	155.2	3.2	2.7	0°	1643	1643	1643	1643	1643	
10°-20°	445.7	9.3	7.8	5°	1626	1629	1634	1633	1638	154
20°-30°	679.7	14.2	11.9	15°	1563	1570	1580	1586	1593	441
30°-40°	828.7	17.3	14.5	25°	1451	1459	1476	1487	1496	669
40°-50°	872.5	18.3	15.3	35°	1297	1307	1325	1341	1352	811
50°-60°	794.9	16.6	13.9	45°	1107	1116	1132	1149	1156	853
60°-70°	597.1	12.5	10.5	55°	883	888	896	894	892	788
70°-80°	328.8	6.9	5.8	65°	621	622	606	587	580	614
80°-90°	75.4	1.6	1.3	75°	343	334	306	288	283	363
90°-100°	0.0	0.0	0.0	85°	88	72	56	43	40	101
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°	1280.6	26.8	22.5							
0°-40°	2109.2	44.1	37.0							
0°-60°	3776.6	79.0	66.3							
0°-90°	4778.0	100.0	83.8							
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°	4778.0	100.0	83.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643	1643	1643	1643	1643
2.5°	1635	1638	1642	1640	1646
5°	1626	1629	1634	1633	1638
7.5°	1616	1619	1625	1626	1633
10°	1601	1605	1613	1616	1621
12.5°	1584	1589	1598	1602	1609
15°	1563	1570	1580	1586	1593
17.5°	1540	1546	1559	1567	1575
20°	1514	1520	1535	1545	1553
22.5°	1483	1491	1507	1517	1526
25°	1451	1459	1476	1487	1496
27.5°	1417	1426	1444	1456	1464
30°	1378	1388	1406	1419	1429
32.5°	1339	1349	1367	1381	1391
35°	1297	1307	1325	1341	1352
37.5°	1252	1264	1280	1298	1309
40°	1206	1217	1234	1252	1261
42.5°	1157	1168	1184	1202	1210
45°	1107	1116	1132	1149	1156
47.5°	1053	1062	1076	1091	1097
50°	998	1005	1018	1030	1035
52.5°	941	949	959	965	964
55°	883	888	896	894	892
57.5°	821	824	828	818	815
60°	757	759	758	743	737
62.5°	689	690	682	664	660
65°	621	622	606	587	580
67.5°	553	551	530	509	501
70°	482	478	454	432	425
72.5°	413	408	379	359	353
75°	343	334	306	288	283
77.5°	275	261	237	220	214
80°	208	192	171	155	149
82.5°	145	128	110	95	89
85°	88	72	56	43	40
87.5°	34	23	16	14	13
90°	0	0	0	0	0

(END OF REPORT)