

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: CORELITE

Report Number: 14021

Luminaire Tested: **AP-WP-4T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14021
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-WP-4T8
Description: CORELITE FLUORESCENT INDIRECT INDOOR LUMINAIRE
WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER PERFORATIONS
Light Source: FOUR 32 WATT PHILIPS LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: ONE MOTOROLA M4-IN-T8-GP-D-120 BALLAST OPERATING AT 120 VAC AND 105 WATTS

Summary

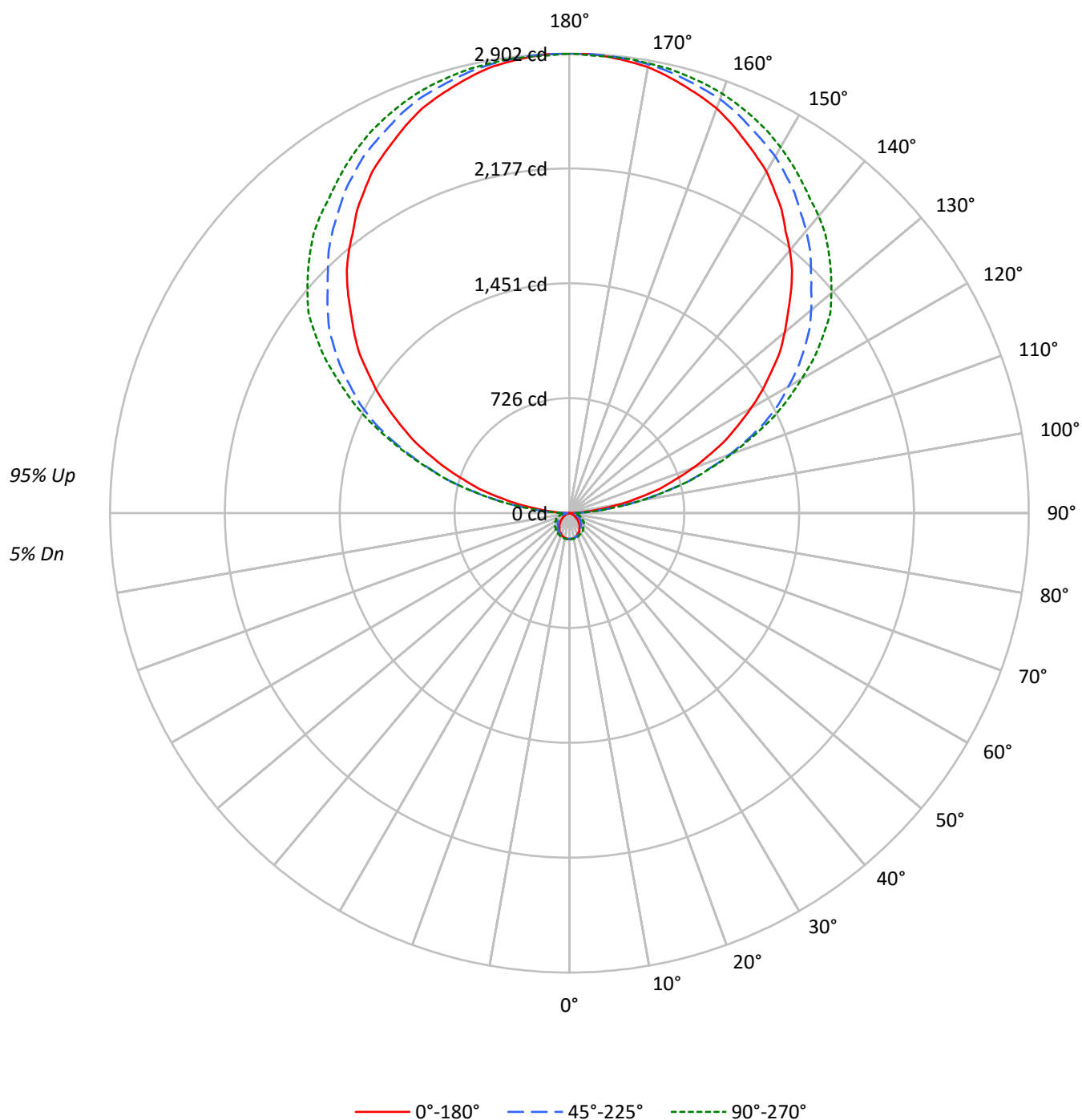
Lumens per Lamp: 3000 (4 lamps)
Luminaire Lumens: 9882.5 lumens
Efficiency: 82.4%
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.35 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 105
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	79	79	79	79	68	68	68	68	48	48	48	29	29	29	12	12	12
1	72	69	66	63	62	59	57	55	42	40	39	25	25	24	11	10	10
2	66	60	55	51	56	52	48	45	36	34	32	22	21	20	9	9	8
3	60	53	47	43	51	45	41	37	32	29	27	20	18	17	8	8	7
4	54	46	40	36	47	40	35	31	28	25	23	17	16	14	7	7	6
5	50	41	35	30	43	36	30	27	25	22	19	15	14	12	6	6	5
6	46	37	30	26	39	32	27	23	22	19	17	14	12	10	6	5	4
7	42	33	27	22	36	28	23	20	20	17	14	12	11	9	5	4	4
8	39	29	24	20	33	26	21	17	18	15	13	11	9	8	5	4	3
9	36	27	21	17	31	23	18	15	17	13	11	10	8	7	4	4	3
10	33	24	19	15	29	21	16	13	15	12	10	9	8	6	4	3	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	583	583	583
5°	586	580	572
10°	578	557	568
15°	560	541	542
20°	546	526	537
25°	523	506	515
30°	498	491	508
35°	462	460	508
40°	432	438	482
45°	388	414	473
50°	347	399	474
55°	299	389	473
60°	264	372	455
65°	228	345	459
70°	184	327	430
75°	134	286	405
80°	67	268	406
85°	12	228	348



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.5	0.2	0.1
10°-20°	44.2	0.4	0.4
20°-30°	66.2	0.7	0.6
30°-40°	78.6	0.8	0.7
40°-50°	80.7	0.8	0.7
50°-60°	74.9	0.8	0.6
60°-70°	60.9	0.6	0.5
70°-80°	43.4	0.4	0.4
80°-90°	24.8	0.3	0.2
90°-100°	215.2	2.2	1.8
100°-110°	772.4	7.8	6.4
110°-120°	1283.4	13.0	10.7
120°-130°	1596.7	16.2	13.3
130°-140°	1666.5	16.9	13.9
140°-150°	1540.8	15.6	12.8
150°-160°	1241.3	12.6	10.3
160°-170°	801.0	8.1	6.7
170°-180°	275.9	2.8	2.3
0°-30°	125.9	1.3	1.0
0°-40°	204.5	2.1	1.7
0°-60°	360.1	3.6	3.0
0°-90°	489.2	5.0	4.1
90°-120°	2271.0	23.0	18.9
90°-150°	7075.1	71.6	59.0
90°-180°	9393.0	95.0	78.3
0°-180°	9882.5	100.0	82.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	163	163	163	163	163	
5°	164	164	165	164	164	15
15°	153	155	156	159	159	44
25°	136	138	145	150	150	63
35°	110	116	126	136	143	70
45°	81	87	104	120	124	63
55°	52	61	87	103	112	47
65°	30	41	65	82	93	29
75°	12	22	42	60	66	13
85°	0	6	23	35	41	1
90°	4	19	30	35	44	6
95°	106	179	188	194	194	133
105°	589	719	779	766	784	610
115°	1087	1199	1367	1398	1413	1069
125°	1557	1656	1812	1931	1958	1394
135°	1980	2052	2158	2272	2319	1526
145°	2338	2391	2476	2534	2558	1460
155°	2606	2646	2694	2738	2754	1203
165°	2795	2818	2835	2855	2860	790
175°	2891	2901	2897	2898	2892	275
180°	2902	2902	2902	2902	2902	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	162.6	162.6	162.6	162.6	162.6
2.5°	165.1	163.5	162.0	162.0	165.1
5°	163.5	163.5	165.1	163.5	163.5
7.5°	160.4	160.4	162.0	160.4	165.1
10°	160.4	162.0	160.4	160.4	165.1
12.5°	158.8	156.5	158.8	158.8	162.0
15°	153.3	154.9	156.5	158.8	158.8
17.5°	151.7	149.0	153.3	159.2	158.8
20°	146.2	146.2	151.7	153.3	157.6
22.5°	138.7	141.9	146.2	150.2	156.5
25°	136.0	137.6	144.6	150.2	150.2
27.5°	133.2	134.4	138.7	144.6	150.2
30°	124.6	130.1	137.6	141.5	146.2
32.5°	118.6	121.4	131.6	137.6	143.1
35°	110.0	115.5	125.7	136.0	143.1
37.5°	105.7	108.4	119.8	130.5	139.1
40°	97.0	102.9	115.5	127.3	131.6
42.5°	89.9	95.4	110.0	124.6	131.6
45°	81.2	87.1	104.5	120.2	124.2
47.5°	75.3	85.6	100.1	114.3	124.6
50°	66.7	75.3	95.4	111.6	118.6
52.5°	58.0	71.0	92.7	108.4	114.3
55°	52.1	61.1	87.1	102.9	111.6
57.5°	45.0	58.0	81.2	101.3	105.7
60°	40.7	50.9	76.9	91.1	100.1
62.5°	30.4	45.0	66.7	87.1	92.7
65°	30.4	40.7	65.1	82.4	92.7
67.5°	24.9	35.2	58.0	76.9	88.3
70°	20.6	30.4	55.2	69.8	78.5
72.5°	16.3	27.7	49.3	66.7	74.1
75°	11.9	21.8	42.2	59.6	65.5
77.5°	9.2	17.8	36.3	52.5	59.2
80°	4.4	13.1	33.6	47.8	56.8
82.5°	1.7	9.2	26.1	39.1	48.2
85°	0.5	6.0	23.3	34.8	40.7
87.5°	0.5	4.4	14.7	26.1	36.3
90°	4.4	18.6	29.6	34.8	44.2
92.5°	34.8	78.1	82.4	92.7	92.7
95°	105.7	178.9	188.0	193.5	193.9
97.5°	202.5	303.4	317.9	323.4	311.6
100°	329.3	441.6	459.3	464.8	466.4
102.5°	449.1	581.8	610.5	610.5	613.3
105°	588.9	718.8	779.1	766.5	783.8
107.5°	698.8	847.2	919.3	926.4	926.4
110°	828.3	968.1	1073.7	1086.7	1091.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	953.9	1085.1	1220.6	1242.2	1245.4
115°	1086.7	1199.3	1366.7	1398.2	1412.8
117.5°	1203.2	1308.8	1489.2	1546.7	1556.9
120°	1324.5	1428.5	1597.5	1688.4	1692.8
122.5°	1445.8	1545.1	1711.3	1815.2	1836.5
125°	1556.9	1656.5	1812.1	1930.6	1957.8
127.5°	1678.2	1764.4	1912.9	2031.5	2077.9
130°	1774.7	1865.7	1994.0	2122.4	2159.8
132.5°	1872.7	1956.2	2072.0	2200.4	2241.0
135°	1979.5	2051.5	2158.3	2272.5	2318.6
137.5°	2081.9	2144.1	2250.8	2343.4	2392.2
140°	2166.9	2230.7	2327.2	2406.4	2450.1
142.5°	2243.7	2314.2	2398.1	2467.0	2498.9
145°	2337.5	2390.6	2476.1	2533.6	2558.0
147.5°	2412.3	2464.3	2537.9	2598.2	2615.5
150°	2490.3	2530.8	2601.3	2650.5	2667.5
152.5°	2548.2	2589.9	2647.4	2696.6	2715.5
155°	2605.7	2645.8	2693.5	2738.4	2754.1
157.5°	2666.3	2695.0	2742.7	2774.6	2789.2
160°	2719.5	2741.1	2781.7	2809.3	2819.5
162.5°	2758.5	2783.3	2808.9	2833.7	2842.3
165°	2794.7	2817.9	2835.3	2855.3	2859.7
167.5°	2829.3	2845.1	2859.7	2872.3	2876.6
170°	2859.7	2871.1	2878.2	2885.7	2883.7
172.5°	2876.6	2888.0	2889.6	2892.7	2892.7
175°	2891.2	2901.0	2896.7	2898.3	2892.4
177.5°	2901.4	2908.5	2901.4	2897.1	2893.9
180°	2901.7	2901.7	2901.7	2901.7	2901.7

(END OF REPORT)