

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: 16867

Luminaire Tested: **AB-WO-3T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16867
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WO-3T5
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE

WITH WHITE LENS OVER TWO ROWS OF RECTANGULAR APERTURES

Light Source: THREE OSRAM 54 WATT T5 LAMPS

FP54/841/HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: ONE SYL. QT1 & ONE QT2X54/120PHO BALLASTS OPERATING AT 120 VAC AND 182 WATTS

Summary

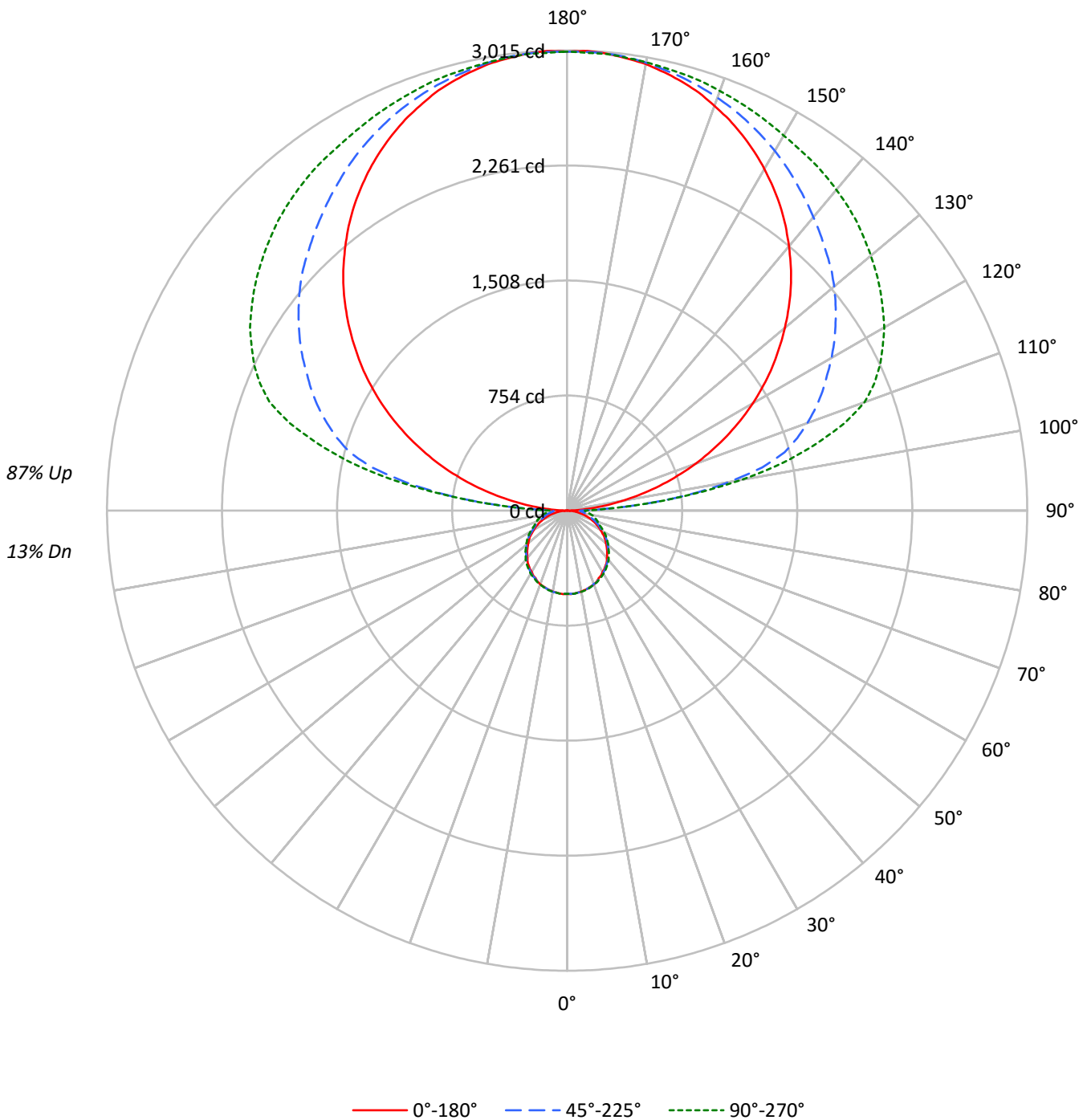
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 13182.6 lumens
Efficiency: 97.6%
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Semi-Indirect

Input Watts (W): 182
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	96	96	96	96	84	84	84	84	62	62	62	41	41	41	22	22	22	13
1	87	83	79	76	76	73	70	67	53	51	50	35	34	33	19	18	18	10
2	79	72	67	62	69	63	59	55	46	43	41	31	29	27	16	16	15	8
3	72	63	57	51	63	56	50	45	41	37	34	27	25	23	14	13	12	7
4	66	56	48	43	57	49	43	38	36	32	29	24	22	20	13	12	11	6
5	60	49	42	36	52	43	37	32	32	28	24	21	19	17	11	10	9	5
6	55	44	37	31	48	39	32	28	29	24	21	19	16	14	10	9	8	4
7	51	40	32	27	44	35	29	24	26	21	18	17	15	13	9	8	7	4
8	47	36	28	24	41	31	25	21	23	19	16	16	13	11	9	7	6	3
9	44	32	25	21	38	28	23	19	21	17	14	14	12	10	8	6	5	3
10	41	29	23	18	35	26	20	16	19	15	13	13	11	9	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1959	1959	1959
5°	1954	1922	1913
10°	1938	1877	1856
15°	1926	1822	1813
20°	1920	1771	1755
25°	1882	1723	1705
30°	1856	1686	1658
35°	1846	1627	1599
40°	1806	1584	1545
45°	1768	1520	1470
50°	1723	1444	1408
55°	1700	1383	1349
60°	1628	1273	1266
65°	1565	1210	1181
70°	1484	1131	1167
75°	1348	1063	1161
80°	1150	1039	1173
85°	701	997	1151



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.8	0.4	0.4
10°-20°	149.0	1.1	1.1
20°-30°	227.7	1.7	1.7
30°-40°	278.0	2.1	2.1
40°-50°	292.9	2.2	2.2
50°-60°	273.8	2.1	2.0
60°-70°	224.3	1.7	1.7
70°-80°	164.8	1.3	1.2
80°-90°	103.5	0.8	0.8
90°-100°	509.4	3.9	3.8
100°-110°	1369.4	10.4	10.1
110°-120°	1760.3	13.4	13.0
120°-130°	1886.0	14.3	14.0
130°-140°	1843.7	14.0	13.7
140°-150°	1639.6	12.4	12.1
150°-160°	1293.4	9.8	9.6
160°-170°	829.3	6.3	6.1
170°-180°	285.7	2.2	2.1
0°-30°	428.5	3.3	3.2
0°-40°	706.5	5.4	5.2
0°-60°	1273.2	9.7	9.4
0°-90°	1765.8	13.4	13.1
90°-120°	3639.1	27.6	27.0
90°-150°	9008.4	68.3	66.7
90°-180°	11417.0	86.6	84.6
0°-180°	13182.6	100.0	97.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	546	544	547	542	547	52
15°	527	524	527	526	532	149
25°	489	489	492	496	498	226
35°	440	437	444	449	450	275
45°	370	373	384	387	386	285
55°	296	294	309	314	318	263
65°	209	215	228	234	239	207
75°	120	130	157	182	188	127
85°	29	63	102	128	134	33
90°	0	45	85	101	115	8
95°	139	440	508	513	520	162
105°	627	1001	1475	1644	1689	663
115°	1154	1419	1844	2147	2263	1140
125°	1642	1775	2147	2394	2506	1466
135°	2073	2168	2399	2606	2681	1598
145°	2435	2509	2619	2748	2797	1523
155°	2715	2742	2807	2856	2886	1252
165°	2909	2918	2935	2947	2960	821
175°	3004	3007	3006	2995	3003	286
180°	3007	3007	3007	3007	3007	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.0	546.0	546.0	546.0	546.0
2.5°	548.3	546.7	545.1	546.7	545.5
5°	545.5	543.9	546.7	542.3	546.7
7.5°	542.3	542.3	542.3	542.3	542.3
10°	537.8	536.6	540.6	539.4	539.4
12.5°	533.4	531.7	534.6	531.7	536.2
15°	527.3	524.5	527.3	526.1	531.7
17.5°	520.0	518.4	523.2	522.8	522.8
20°	514.3	511.1	511.1	514.3	515.5
22.5°	504.2	501.0	508.3	507.0	508.3
25°	489.2	489.2	492.1	496.5	497.7
27.5°	480.3	475.5	484.8	484.4	487.6
30°	464.1	466.6	472.6	475.5	477.1
32.5°	453.6	450.4	459.7	460.9	465.3
35°	439.8	437.0	444.3	448.7	450.4
37.5°	425.2	424.0	431.3	434.2	437.4
40°	405.8	407.4	417.6	419.2	422.0
42.5°	386.8	391.2	395.7	403.0	403.0
45°	370.2	373.0	383.5	386.8	386.4
47.5°	350.7	356.8	364.1	365.7	367.3
50°	331.7	336.2	345.1	347.9	352.4
52.5°	315.5	318.4	330.1	330.1	332.9
55°	296.1	294.5	309.4	313.9	318.4
57.5°	272.2	279.9	288.8	297.7	298.9
60°	251.5	256.0	263.3	273.8	278.3
62.5°	232.5	238.2	245.9	256.4	258.8
65°	209.0	214.7	228.1	233.7	238.6
67.5°	186.4	196.9	208.6	219.2	223.6
70°	165.7	171.4	190.8	205.8	213.1
72.5°	143.4	151.1	168.5	192.4	203.0
75°	119.9	130.1	156.8	182.3	188.0
77.5°	98.9	110.6	145.1	165.7	177.9
80°	75.4	96.1	130.1	152.3	164.1
82.5°	52.7	76.6	113.5	141.8	149.1
85°	29.2	63.3	101.7	128.5	134.5
87.5°	5.4	48.7	90.0	115.1	122.4
90°	0.5	44.6	84.7	100.9	114.7
92.5°	49.9	196.5	227.7	228.1	239.8
95°	139.0	440.2	508.3	512.7	520.4
97.5°	247.1	645.9	810.7	824.1	833.0
100°	369.0	813.6	1078.0	1215.6	1162.2
102.5°	496.5	862.6	1309.2	1344.8	1451.7
105°	626.9	1000.6	1475.2	1644.4	1689.0
107.5°	758.9	1108.7	1580.5	1843.2	1905.6
110°	894.1	1212.8	1674.0	1985.4	2074.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1022.9	1316.5	1763.1	2073.2	2178.1
115°	1153.7	1418.9	1844.5	2146.9	2262.7
117.5°	1279.6	1510.8	1920.2	2224.3	2331.2
120°	1404.3	1606.0	2000.3	2291.1	2399.6
122.5°	1524.2	1725.8	2076.1	2366.8	2452.6
125°	1641.6	1774.8	2146.9	2393.5	2506.1
127.5°	1752.5	1896.3	2217.0	2461.5	2553.9
130°	1862.7	1984.2	2283.8	2513.4	2598.0
132.5°	1969.2	2077.3	2345.7	2564.0	2639.7
135°	2073.2	2167.6	2399.2	2605.7	2681.0
137.5°	2169.2	2246.5	2455.5	2641.3	2715.0
140°	2261.1	2336.8	2510.5	2678.2	2744.6
142.5°	2350.6	2415.4	2565.6	2711.0	2772.9
145°	2434.8	2508.9	2619.0	2747.8	2796.8
147.5°	2512.2	2541.7	2672.1	2758.3	2816.2
150°	2585.0	2624.7	2721.1	2796.8	2838.1
152.5°	2653.1	2682.6	2765.6	2832.4	2862.0
155°	2715.4	2742.1	2807.3	2855.9	2885.9
157.5°	2772.9	2793.6	2845.8	2884.3	2906.5
160°	2821.9	2838.5	2878.6	2906.9	2926.0
162.5°	2871.3	2881.4	2909.4	2928.8	2946.6
165°	2909.4	2918.3	2934.9	2946.6	2959.6
167.5°	2941.0	2956.7	2957.1	2964.0	2970.5
170°	2970.5	2970.1	2979.0	2968.9	2982.3
172.5°	2988.3	2991.2	2997.2	2986.7	2992.4
175°	3004.5	3007.4	3005.7	2995.2	3002.9
177.5°	3014.6	3013.0	3007.4	2998.4	3001.3
180°	3006.9	3006.9	3006.9	3006.9	3006.9

(END OF REPORT)