

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: CTL58873

Luminaire Tested: **NB-SW-3T5-XUX-3 ALL LAMPS ON**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58873
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-XUX-3 ALL LAMPS ON
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 12096.6 lumens
Efficiency: 80.6%
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

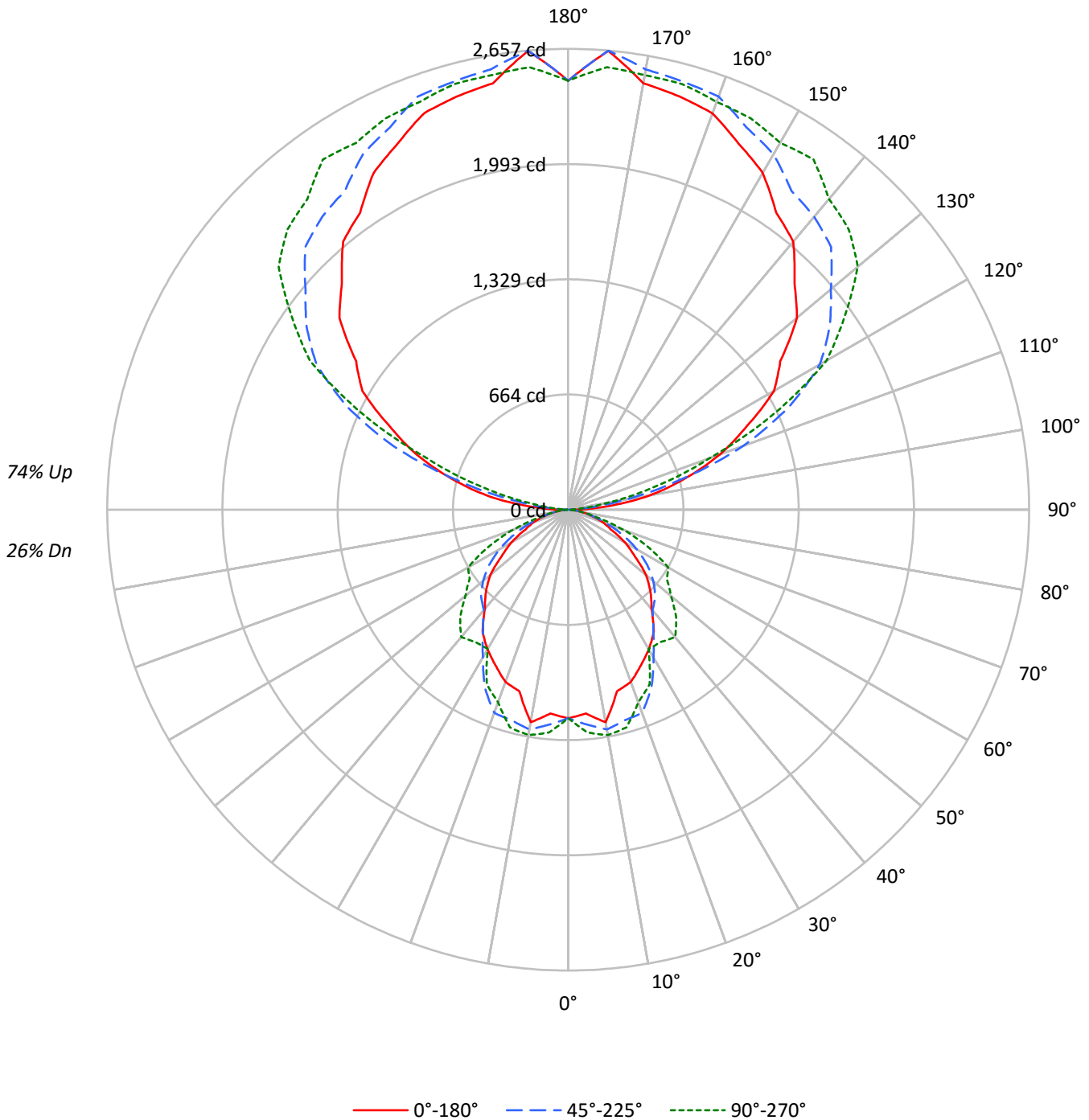
Input Watts (W): 177
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	82	82	82	73	73	73	73	57	57	57	42	42	42	28	28	28	21
1	75	71	68	66	67	64	61	59	50	48	46	37	36	35	25	24	23	18
2	68	62	58	54	60	56	52	48	43	41	38	32	30	29	22	21	20	15
3	62	55	49	45	55	49	44	40	38	35	32	28	26	24	19	18	17	13
4	57	48	42	38	50	43	38	34	34	30	27	25	23	21	17	16	15	11
5	52	43	37	32	46	39	33	29	30	26	24	23	20	18	15	14	13	10
6	48	38	32	28	42	35	29	25	27	23	20	20	18	16	14	12	11	8
7	44	35	28	24	39	31	26	22	25	21	18	18	16	14	13	11	10	8
8	41	31	25	21	36	28	23	19	22	19	16	17	14	12	12	10	9	7
9	38	28	23	19	34	26	21	17	20	17	14	15	13	11	11	9	8	6
10	35	26	20	17	31	23	19	15	19	15	13	14	12	10	10	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4313	4313	4313
5°	4226	4376	4518
10°	4485	4475	4551
15°	3962	4356	4446
20°	3948	4336	4040
25°	3814	3990	3826
30°	3722	3526	3240
35°	3615	3151	3332
40°	3331	2890	3543
45°	3212	2842	3388
50°	3049	2707	3125
55°	2700	2517	2978
60°	2451	2234	3079
65°	2055	1884	2559
70°	1911	1447	1878
75°	1591	1032	1063
80°	1220	671	598
85°	882	308	234



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	118.0	1.0	0.8
10°-20°	345.8	2.9	2.3
20°-30°	495.4	4.1	3.3
30°-40°	560.1	4.6	3.7
40°-50°	576.0	4.8	3.8
50°-60°	506.6	4.2	3.4
60°-70°	366.7	3.0	2.4
70°-80°	168.0	1.4	1.1
80°-90°	40.4	0.3	0.3
90°-100°	160.8	1.3	1.1
100°-110°	712.1	5.9	4.7
110°-120°	1304.9	10.8	8.7
120°-130°	1604.8	13.3	10.7
130°-140°	1624.2	13.4	10.8
140°-150°	1431.2	11.8	9.5
150°-160°	1123.2	9.3	7.5
160°-170°	713.9	5.9	4.8
170°-180°	244.5	2.0	1.6
0°-30°	959.2	7.9	6.4
0°-40°	1519.3	12.6	10.1
0°-60°	2601.9	21.5	17.3
0°-90°	3177.0	26.3	21.2
90°-120°	2177.8	18.0	14.5
90°-150°	6838.0	56.5	45.6
90°-180°	8920.0	73.7	59.5
0°-180°	12096.6	100.0	80.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1180	1225	1244	1220	1289	115
15°	1084	1195	1257	1292	1299	314
25°	990	1104	1134	1047	1110	458
35°	860	931	854	882	931	532
45°	671	686	710	812	881	516
55°	469	467	556	635	693	425
65°	273	295	350	454	508	281
75°	140	138	149	160	168	151
85°	36	31	30	24	26	40
90°	21	9	6	4	3	42
95°	226	164	87	59	54	246
105°	699	827	671	570	526	741
115°	1133	1314	1404	1383	1311	1131
125°	1492	1664	1840	1934	1946	1360
135°	1844	1969	2142	2261	2287	1436
145°	2091	2232	2244	2358	2465	1324
155°	2327	2410	2432	2465	2489	1077
165°	2468	2477	2554	2560	2540	698
175°	2656	2540	2657	2580	2561	246
180°	2473	2473	2473	2473	2473	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.0	1202.0	1202.0	1202.0	1202.0
5°	1179.6	1225.1	1243.5	1219.7	1289.4
10°	1244.0	1157.4	1286.3	1294.7	1319.4
15°	1083.7	1195.4	1256.9	1292.4	1299.2
20°	1056.4	1145.8	1246.4	1168.5	1181.0
25°	990.2	1104.0	1133.8	1047.1	1110.4
30°	929.4	1014.8	982.8	928.3	926.3
35°	860.0	931.2	854.5	882.3	930.8
40°	746.8	825.6	755.8	884.1	959.1
45°	670.9	685.9	710.4	812.5	881.0
50°	585.3	581.6	639.9	742.0	772.9
55°	468.6	467.3	556.4	635.3	693.2
60°	377.0	382.6	456.0	573.1	666.3
65°	273.1	294.6	349.5	454.2	507.8
70°	212.1	206.9	239.6	297.9	336.1
75°	140.4	138.3	148.9	159.8	168.1
80°	79.1	84.7	81.9	81.3	81.3
85°	36.1	30.9	30.4	24.4	26.4
90°	21.3	9.2	5.8	3.7	3.2
95°	225.9	163.7	87.4	59.1	53.6
100°	478.6	489.0	334.6	254.2	231.8
105°	698.8	827.0	671.0	569.8	525.7
110°	929.3	1088.2	1071.2	950.3	865.5
115°	1133.3	1314.2	1404.5	1382.8	1311.0
120°	1369.0	1484.2	1674.9	1725.4	1719.2
125°	1492.2	1663.8	1840.0	1934.4	1945.8
130°	1721.0	1850.6	1976.5	2146.2	2178.4
135°	1844.3	1968.8	2142.3	2261.0	2286.8
140°	2017.9	2093.6	2205.2	2318.9	2338.3
145°	2090.6	2231.6	2243.7	2357.8	2465.0
150°	2242.4	2351.2	2366.4	2416.0	2442.7
155°	2327.2	2409.6	2431.9	2464.9	2489.2
160°	2431.8	2458.0	2534.7	2506.6	2502.0
165°	2467.6	2476.8	2554.3	2560.0	2539.8
170°	2496.5	2483.4	2577.4	2593.9	2543.6
175°	2655.5	2540.0	2656.7	2580.0	2561.2
180°	2473.2	2473.2	2473.2	2473.2	2473.2

(END OF REPORT)