

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: CTL58858

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58858
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-UDU-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: 9134.1 lumens
Efficiency: 60.9%
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

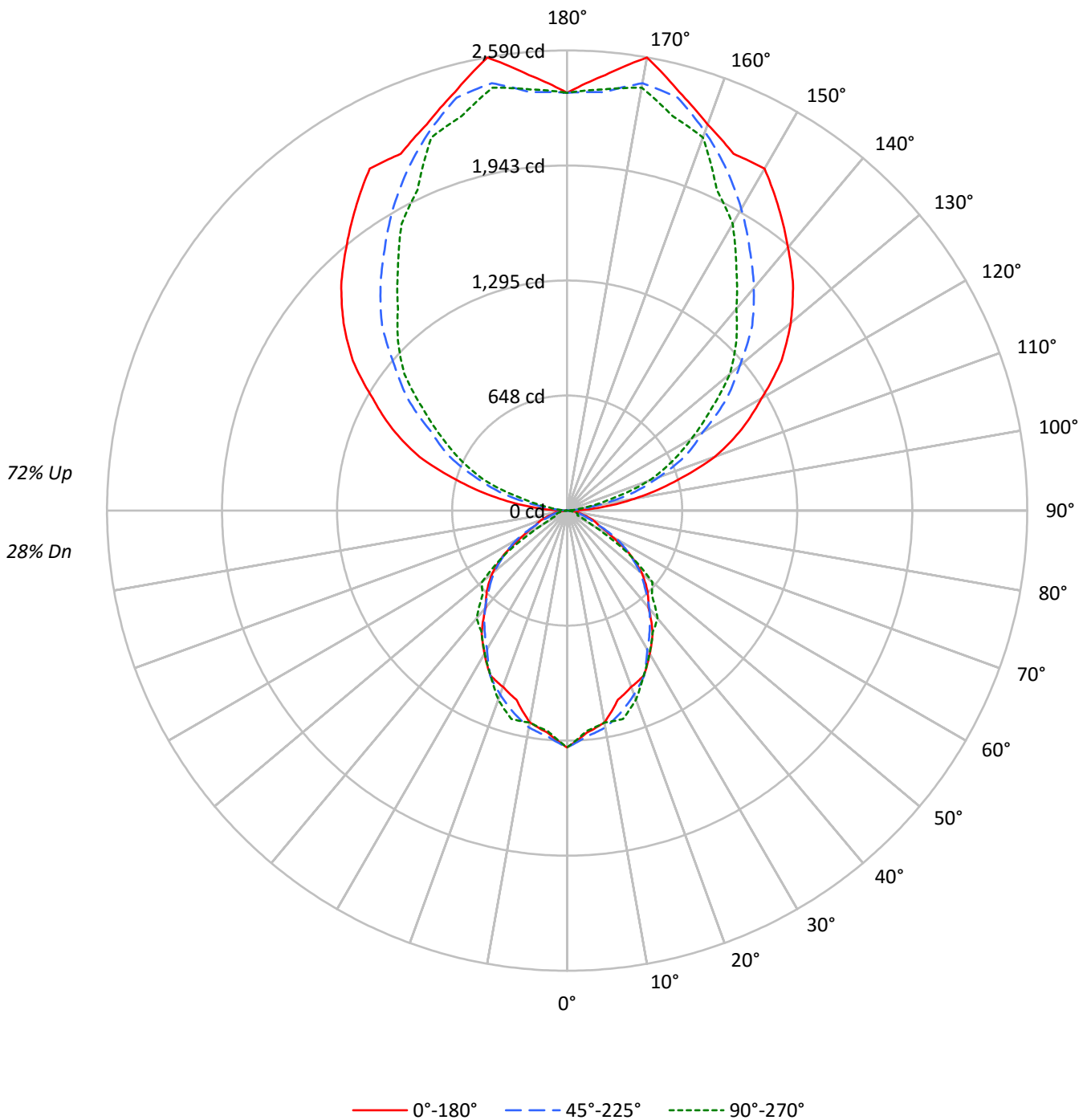
Input Watts (W): 177
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	50	30	10	0														
RCR																																						
0	62	62	62	62	56	56	56	56	43	43	43	32	32	32	22	22	22	17						17														
1	57	54	52	50	51	49	47	45	38	37	36	29	28	27	20	19	19	15						15														
2	52	48	44	41	46	43	40	38	34	32	30	26	24	23	18	17	16	13						13														
3	47	42	38	35	42	38	34	32	30	28	26	23	21	20	16	15	14	11						11														
4	43	37	33	29	39	34	30	27	27	24	22	20	19	17	14	13	12	10						10														
5	40	33	29	25	36	30	26	23	24	21	19	18	16	15	13	12	11	9						9														
6	37	30	25	22	33	27	23	20	22	19	17	17	15	13	12	11	10	8						8														
7	34	27	22	19	30	24	20	18	20	17	15	15	13	12	11	10	9	7						7														
8	31	24	20	17	28	22	18	16	18	15	13	14	12	10	10	9	8	6						6														
9	29	22	18	15	26	20	16	14	16	14	12	13	11	9	9	8	7	6						6														
10	27	20	16	13	24	18	15	12	15	12	10	12	10	8	9	7	6	5						5														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4783	4783	4783
5°	4500	4489	4365
10°	4364	4313	4180
15°	4031	4070	4155
20°	3947	3833	3874
25°	3942	3608	3516
30°	3723	3235	3244
35°	3528	2991	3001
40°	3178	2748	2925
45°	3058	2484	2590
50°	2865	2257	2527
55°	2503	1939	1792
60°	1891	1610	727
65°	1471	1046	326
70°	1380	727	360
75°	1082	571	352
80°	987	402	223
85°	591	175	101



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	119.8	1.3	0.8
10°-20°	328.3	3.6	2.2
20°-30°	467.4	5.1	3.1
30°-40°	515.6	5.6	3.4
40°-50°	495.6	5.4	3.3
50°-60°	377.3	4.1	2.5
60°-70°	176.1	1.9	1.2
70°-80°	86.5	0.9	0.6
80°-90°	24.8	0.3	0.2
90°-100°	89.6	1.0	0.6
100°-110°	427.1	4.7	2.8
110°-120°	779.6	8.5	5.2
120°-130°	1032.2	11.3	6.9
130°-140°	1173.0	12.8	7.8
140°-150°	1153.5	12.6	7.7
150°-160°	986.8	10.8	6.6
160°-170°	669.6	7.3	4.5
170°-180°	231.3	2.5	1.5
0°-30°	915.5	10.0	6.1
0°-40°	1431.1	15.7	9.5
0°-60°	2304.0	25.2	15.4
0°-90°	2591.4	28.4	17.3
90°-120°	1296.3	14.2	8.6
90°-150°	4655.0	51.0	31.0
90°-180°	6543.0	71.6	43.6
0°-180°	9134.1	100.0	60.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1256	1196	1276	1210	1246	119
15°	1102	1135	1174	1152	1214	315
25°	1024	1031	1025	1013	1020	465
35°	839	813	811	821	838	519
45°	639	613	621	660	673	490
55°	434	417	429	442	417	382
65°	196	212	194	105	65	207
75°	96	101	82	65	56	108
85°	24	24	17	16	11	30
90°	15	4	1	2	1	31
95°	172	87	38	20	14	196
105°	621	478	380	308	262	663
115°	1084	901	740	663	650	1069
125°	1472	1295	1094	1014	984	1310
135°	1798	1691	1473	1346	1347	1386
145°	2077	2007	1792	1676	1660	1302
155°	2216	2248	2121	2074	1992	1036
165°	2439	2395	2406	2344	2298	690
175°	2461	2525	2364	2390	2380	238
180°	2352	2352	2352	2352	2352	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.2	1333.2	1333.2	1333.2	1333.2
5°	1256.0	1196.3	1275.7	1209.8	1245.7
10°	1210.5	1263.3	1239.8	1312.5	1212.0
15°	1102.5	1134.8	1174.5	1152.0	1214.3
20°	1056.2	1079.8	1101.7	1095.9	1132.6
25°	1023.6	1031.4	1025.4	1012.6	1020.5
30°	929.7	927.4	901.8	910.4	927.4
35°	839.2	813.2	811.0	820.9	838.3
40°	712.6	741.0	718.6	730.9	791.8
45°	638.8	613.2	620.9	660.0	673.3
50°	549.9	513.7	533.6	592.4	625.0
55°	434.3	417.4	428.6	442.0	417.2
60°	290.9	310.2	328.6	244.6	157.3
65°	195.5	212.0	194.0	104.6	64.6
70°	153.2	148.5	120.3	85.3	64.5
75°	95.5	101.4	82.4	65.3	55.7
80°	64.0	59.8	49.0	43.5	30.4
85°	24.2	23.5	17.3	16.4	11.4
90°	15.0	4.0	1.3	2.1	0.6
95°	172.5	86.6	37.8	20.2	14.2
100°	385.3	288.9	172.5	119.4	105.5
105°	621.4	478.3	380.1	307.5	262.4
110°	884.3	682.9	546.7	519.9	489.0
115°	1083.7	900.7	740.5	663.1	649.6
120°	1263.9	1072.6	881.3	827.3	807.3
125°	1472.4	1294.8	1094.0	1013.5	983.9
130°	1642.6	1514.1	1267.6	1177.0	1195.5
135°	1798.0	1690.9	1472.6	1346.4	1346.8
140°	1933.8	1876.4	1634.9	1532.0	1481.7
145°	2077.0	2007.1	1792.1	1676.0	1660.3
150°	2222.0	2178.7	1960.9	1838.4	1862.7
155°	2215.5	2247.5	2121.1	2074.1	1991.7
160°	2312.3	2353.8	2269.4	2203.6	2235.0
165°	2438.7	2394.7	2405.6	2343.8	2297.9
170°	2589.5	2412.4	2442.5	2419.4	2417.1
175°	2461.0	2525.3	2363.5	2389.8	2379.8
180°	2351.9	2351.9	2351.9	2351.9	2351.9

(END OF REPORT)