

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: CTL58872

Luminaire Tested: **NB-SW-3T5-XUX-2 OUTBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58872
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-XUX-2 OUTBOARD ONLY
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 (2 lamps)
Luminaire Lumens: 8859.4 lumens
Efficiency: 88.6%
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.1 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

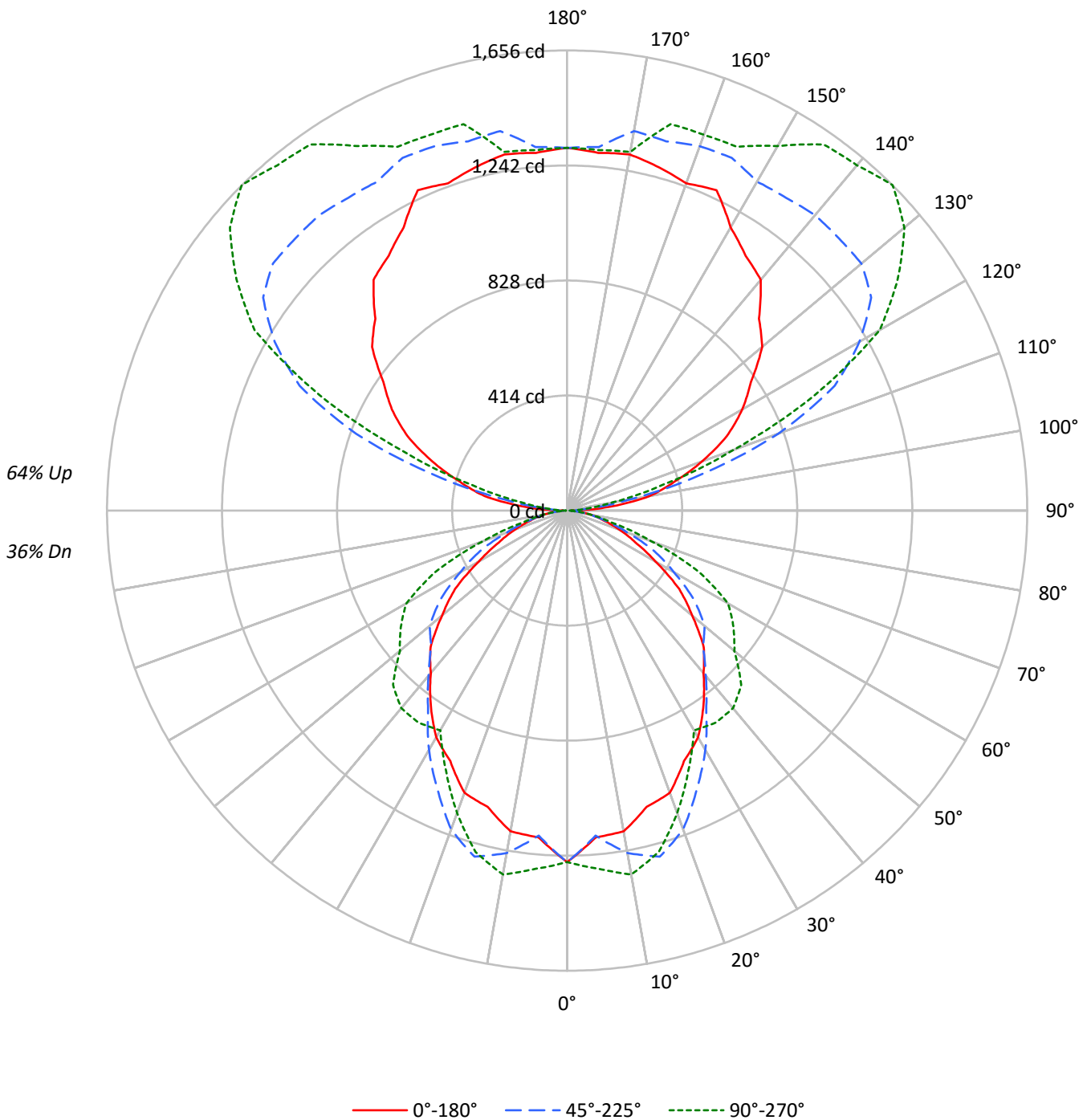
Input Watts (W): 118
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	92	83	83	83	83	67	67	67	52	52	52	38	38	38	32
1	84	80	77	74	76	73	70	67	59	57	55	46	45	43	34	33	33	27
2	76	70	65	60	69	64	59	55	52	48	46	40	38	36	30	29	27	23
3	70	62	55	50	63	56	51	46	45	42	38	36	33	31	27	25	23	19
4	64	55	48	43	57	50	44	39	40	36	33	32	29	26	24	22	20	17
5	58	48	42	36	53	44	38	34	36	32	28	28	25	23	21	19	18	14
6	54	43	36	31	49	40	34	29	32	28	24	26	22	20	19	17	15	13
7	50	39	32	27	45	36	30	25	29	25	21	23	20	18	18	15	14	11
8	46	35	29	24	42	32	27	22	27	22	19	21	18	16	16	14	12	10
9	43	32	26	21	39	30	24	20	24	20	17	20	16	14	15	13	11	9
10	40	30	23	19	36	27	22	18	22	18	15	18	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4540	4540	4540
5°	4229	4131	4534
10°	4226	4354	4587
15°	4036	4468	4352
20°	4039	4247	3961
25°	3832	3889	3557
30°	3773	3569	3194
35°	3597	3217	3336
40°	3405	2966	3429
45°	3329	2766	3409
50°	3060	2730	3176
55°	2838	2514	3140
60°	2384	2175	3087
65°	2040	1867	2643
70°	1786	1391	1808
75°	1525	1010	1037
80°	1348	658	660
85°	909	281	243



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	117.7	1.3	1.2
10°-20°	345.6	3.9	3.5
20°-30°	494.4	5.6	4.9
30°-40°	561.0	6.3	5.6
40°-50°	579.0	6.5	5.8
50°-60°	509.0	5.7	5.1
60°-70°	365.8	4.1	3.7
70°-80°	166.5	1.9	1.7
80°-90°	41.0	0.5	0.4
90°-100°	114.1	1.3	1.1
100°-110°	493.9	5.6	4.9
110°-120°	921.4	10.4	9.2
120°-130°	1098.8	12.4	11.0
130°-140°	1044.5	11.8	10.4
140°-150°	861.2	9.7	8.6
150°-160°	634.0	7.2	6.3
160°-170°	385.3	4.3	3.9
170°-180°	126.0	1.4	1.3
0°-30°	957.7	10.8	9.6
0°-40°	1518.7	17.1	15.2
0°-60°	2606.7	29.4	26.1
0°-90°	3180.0	35.9	31.8
90°-120°	1529.5	17.3	15.3
90°-150°	4534.0	51.2	45.3
90°-180°	5679.0	64.1	56.8
0°-180°	8859.4	100.0	88.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1180	1179	1174	1283	1294	113
15°	1104	1163	1289	1300	1272	315
25°	995	1117	1105	1068	1032	463
35°	856	933	872	887	932	535
45°	695	698	691	846	886	529
55°	492	475	556	638	731	433
65°	271	293	346	468	525	274
75°	135	143	146	152	164	146
85°	37	34	28	26	28	42
90°	15	8	4	3	4	30
95°	149	112	66	55	56	157
105°	398	590	494	381	353	426
115°	634	869	1062	1039	984	622
125°	807	1026	1336	1442	1453	730
135°	976	1140	1384	1584	1656	764
145°	1120	1227	1374	1539	1608	706
155°	1272	1323	1400	1412	1444	575
165°	1279	1305	1376	1390	1440	362
175°	1292	1278	1313	1331	1302	124
180°	1305	1305	1305	1305	1305	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.3	1265.3	1265.3	1265.3	1265.3
5°	1180.2	1179.4	1174.0	1283.0	1293.9
10°	1172.2	1191.3	1251.5	1271.8	1329.9
15°	1104.1	1162.6	1289.3	1299.7	1272.0
20°	1080.8	1161.1	1220.8	1202.6	1158.1
25°	995.0	1116.8	1105.2	1068.4	1032.2
30°	942.2	1013.4	994.8	922.1	913.2
35°	855.7	933.2	872.4	886.9	931.8
40°	763.6	807.7	775.7	863.1	928.2
45°	695.3	698.0	691.2	845.9	886.4
50°	587.4	579.2	645.4	735.6	785.6
55°	492.4	474.8	555.9	638.0	730.8
60°	366.7	376.8	443.8	555.2	668.2
65°	271.1	293.3	346.4	468.2	524.6
70°	198.3	211.8	230.2	307.0	323.6
75°	134.6	142.8	145.7	152.5	163.9
80°	87.4	82.9	80.3	83.6	89.8
85°	37.2	34.4	27.7	26.4	27.5
90°	14.7	8.3	4.3	3.4	3.7
95°	148.8	112.0	66.4	55.4	56.3
100°	302.3	350.4	223.7	176.0	156.8
105°	398.5	589.7	493.6	380.9	352.8
110°	515.8	759.0	808.7	690.4	633.3
115°	634.4	869.1	1062.1	1038.7	983.6
120°	728.1	970.2	1215.0	1297.6	1298.4
125°	807.4	1025.6	1335.7	1442.4	1452.7
130°	916.5	1085.1	1382.4	1538.0	1584.2
135°	976.5	1139.5	1384.5	1584.3	1656.5
140°	1084.0	1181.1	1387.7	1561.8	1622.3
145°	1119.6	1226.6	1373.7	1538.6	1608.5
150°	1176.8	1247.3	1366.9	1482.1	1514.9
155°	1272.3	1322.6	1400.4	1412.0	1444.4
160°	1253.1	1317.3	1395.1	1434.0	1439.1
165°	1278.6	1305.2	1375.8	1390.2	1439.7
170°	1301.3	1338.7	1386.7	1347.6	1310.4
175°	1292.3	1277.9	1313.1	1331.0	1302.3
180°	1305.1	1305.1	1305.1	1305.1	1305.1

(END OF REPORT)