

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: CTL58870

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58870
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-XDX-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: 11802.6 lumens
Efficiency: 78.7%
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.12 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

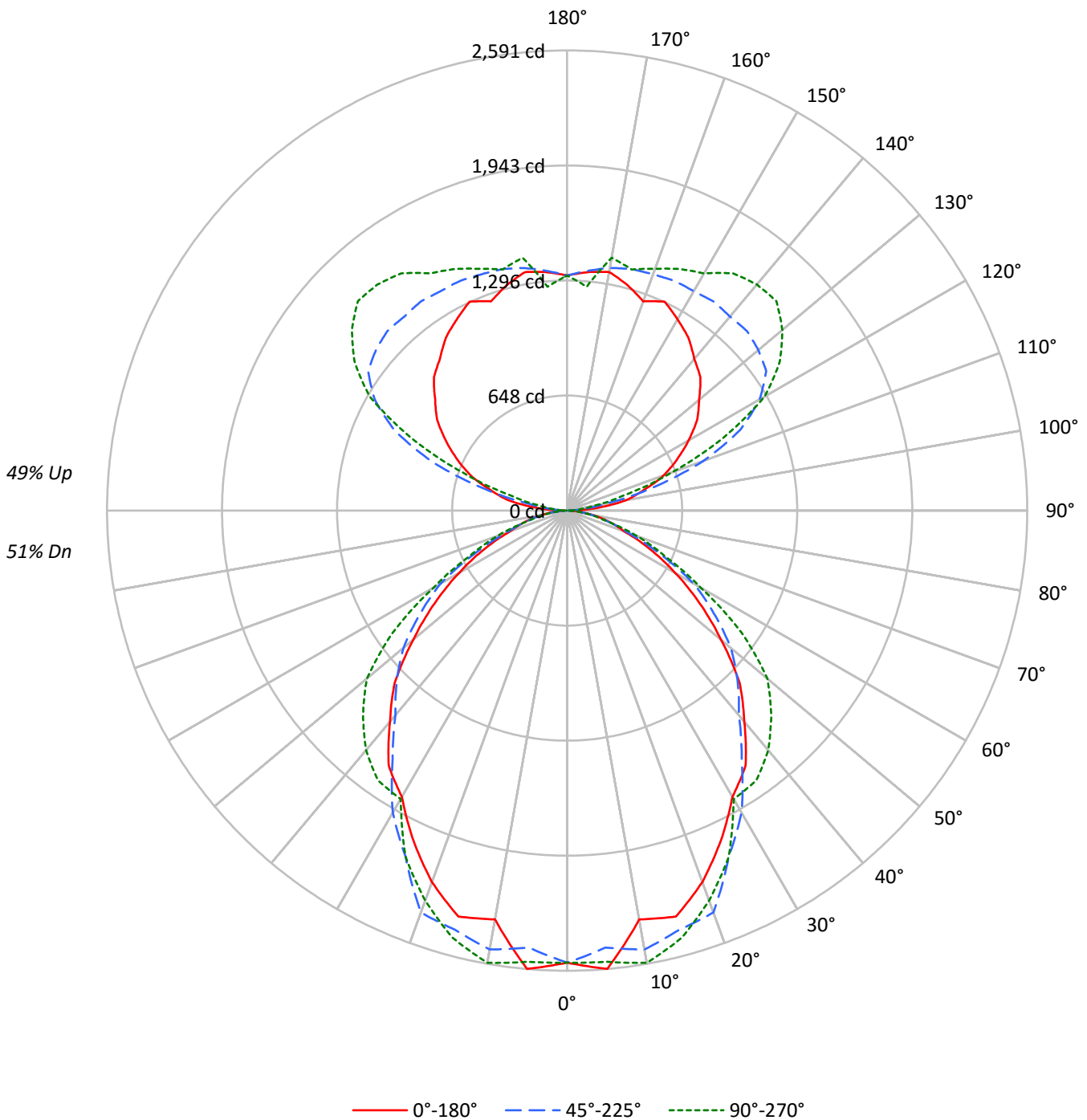
Input Watts (W): 177
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	84	84	84	78	78	78	78	66	66	66		55	55	55		45	45	45	40
1	77	74	71	69	71	69	66	64	58	56	55		49	47	46		40	39	38	34
2	71	65	60	56	65	60	56	53	51	48	46		43	41	39		35	34	33	29
3	65	57	52	47	59	53	48	44	45	42	39		38	36	33		32	30	28	25
4	59	51	45	40	55	47	42	38	41	36	33		34	31	29		28	26	24	22
5	54	45	39	35	50	42	37	33	36	32	29		31	28	25		26	23	21	19
6	50	41	35	30	46	38	32	28	33	28	25		28	25	22		23	21	19	17
7	46	37	31	26	43	34	29	25	30	25	22		25	22	20		21	19	17	15
8	43	34	28	23	40	31	26	22	27	23	20		23	20	17		20	17	15	13
9	40	31	25	21	37	29	23	20	25	21	18		21	18	16		18	16	14	12
10	38	28	23	19	35	26	21	18	23	19	16		20	17	14		17	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9133	9133	9133
5°	9282	8693	8935
10°	8428	8728	8919
15°	8652	8467	8524
20°	8317	8378	7993
25°	7891	7573	7414
30°	7452	7045	6559
35°	7368	6319	6644
40°	6924	5749	6507
45°	6577	5431	6252
50°	5892	5087	5952
55°	5250	4559	5153
60°	4571	4032	4020
65°	3884	3090	3063
70°	3065	2204	2337
75°	2799	1648	1428
80°	2294	1157	972
85°	1591	474	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	239.4	2.0	1.6
10°-20°	689.0	5.8	4.6
20°-30°	990.5	8.4	6.6
30°-40°	1109.7	9.4	7.4
40°-50°	1109.6	9.4	7.4
50°-60°	923.7	7.8	6.2
60°-70°	571.0	4.8	3.8
70°-80°	262.1	2.2	1.7
80°-90°	67.9	0.6	0.5
90°-100°	117.0	1.0	0.8
100°-110°	505.0	4.3	3.4
110°-120°	940.3	8.0	6.3
120°-130°	1132.0	9.6	7.5
130°-140°	1080.2	9.2	7.2
140°-150°	891.0	7.5	5.9
150°-160°	652.0	5.5	4.3
160°-170°	392.0	3.3	2.6
170°-180°	130.1	1.1	0.9
0°-30°	1918.9	16.3	12.8
0°-40°	3028.6	25.7	20.2
0°-60°	5061.9	42.9	33.7
0°-90°	5962.9	50.5	39.8
90°-120°	1562.4	13.2	10.4
90°-150°	4665.5	39.5	31.1
90°-180°	5840.0	49.5	38.9
0°-180°	11802.6	100.0	78.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2545	2545	2545	2545	2545	
5°	2591	2478	2470	2522	2550	238
15°	2366	2400	2443	2530	2491	658
25°	2049	2206	2152	2165	2152	943
35°	1753	1809	1714	1762	1856	1084
45°	1374	1361	1357	1547	1626	1048
55°	911	924	1008	1166	1200	817
65°	516	534	573	594	608	513
75°	247	241	238	232	226	259
85°	65	61	47	44	41	72
90°	15	9	5	4	3	36
95°	166	116	67	58	58	175
105°	446	630	494	375	333	478
115°	683	922	1075	1008	970	678
125°	894	1077	1368	1456	1462	795
135°	1061	1200	1431	1638	1667	813
145°	1190	1291	1437	1569	1631	743
155°	1298	1364	1427	1462	1500	589
165°	1314	1302	1408	1427	1405	370
175°	1348	1366	1355	1400	1265	129
180°	1324	1324	1324	1324	1324	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2545.4	2545.4	2545.4	2545.4	2545.4
5°	2590.6	2477.8	2470.1	2522.4	2550.0
10°	2337.7	2365.9	2508.9	2635.9	2585.8
15°	2366.5	2399.9	2443.2	2530.4	2491.2
20°	2225.6	2328.7	2408.3	2384.6	2336.8
25°	2049.0	2206.2	2152.2	2165.0	2151.6
30°	1860.9	2009.3	1963.8	1904.0	1875.0
35°	1752.6	1809.1	1713.6	1762.5	1856.1
40°	1552.5	1606.0	1503.6	1655.4	1761.6
45°	1373.8	1360.8	1357.4	1546.8	1625.5
50°	1130.8	1126.6	1202.5	1402.8	1472.2
55°	911.0	924.1	1008.0	1166.0	1199.5
60°	703.0	732.0	822.8	848.9	870.0
65°	516.2	534.2	573.2	594.4	607.8
70°	340.2	373.3	364.8	402.4	418.2
75°	247.0	240.6	237.9	232.0	225.8
80°	148.7	151.5	141.1	128.5	132.3
85°	65.1	60.6	46.8	43.9	40.8
90°	15.3	8.7	4.8	4.5	2.9
95°	165.5	115.6	67.3	57.9	57.5
100°	338.9	360.4	217.1	164.7	153.5
105°	445.6	629.5	494.1	374.8	333.1
110°	578.5	815.8	813.6	665.7	623.8
115°	683.4	921.8	1075.4	1008.5	970.2
120°	789.3	1040.7	1251.0	1302.4	1284.2
125°	894.4	1076.8	1368.5	1456.5	1461.6
130°	970.0	1164.0	1405.4	1577.2	1581.9
135°	1061.2	1200.3	1430.6	1637.5	1666.9
140°	1114.1	1244.8	1425.8	1580.2	1661.2
145°	1189.7	1291.4	1436.8	1569.4	1630.7
150°	1243.3	1299.8	1425.8	1519.9	1542.2
155°	1298.1	1364.2	1426.8	1462.4	1500.4
160°	1253.7	1374.4	1414.9	1450.5	1448.2
165°	1313.8	1301.7	1407.5	1427.0	1405.3
170°	1363.8	1352.3	1386.7	1394.0	1445.3
175°	1347.8	1366.1	1355.1	1399.8	1265.0
180°	1323.5	1323.5	1323.5	1323.5	1323.5

(END OF REPORT)