

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: CTL58835

Luminaire Tested: **NB-SW-2T5-DL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58835
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T5-DL3
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT

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

Summary

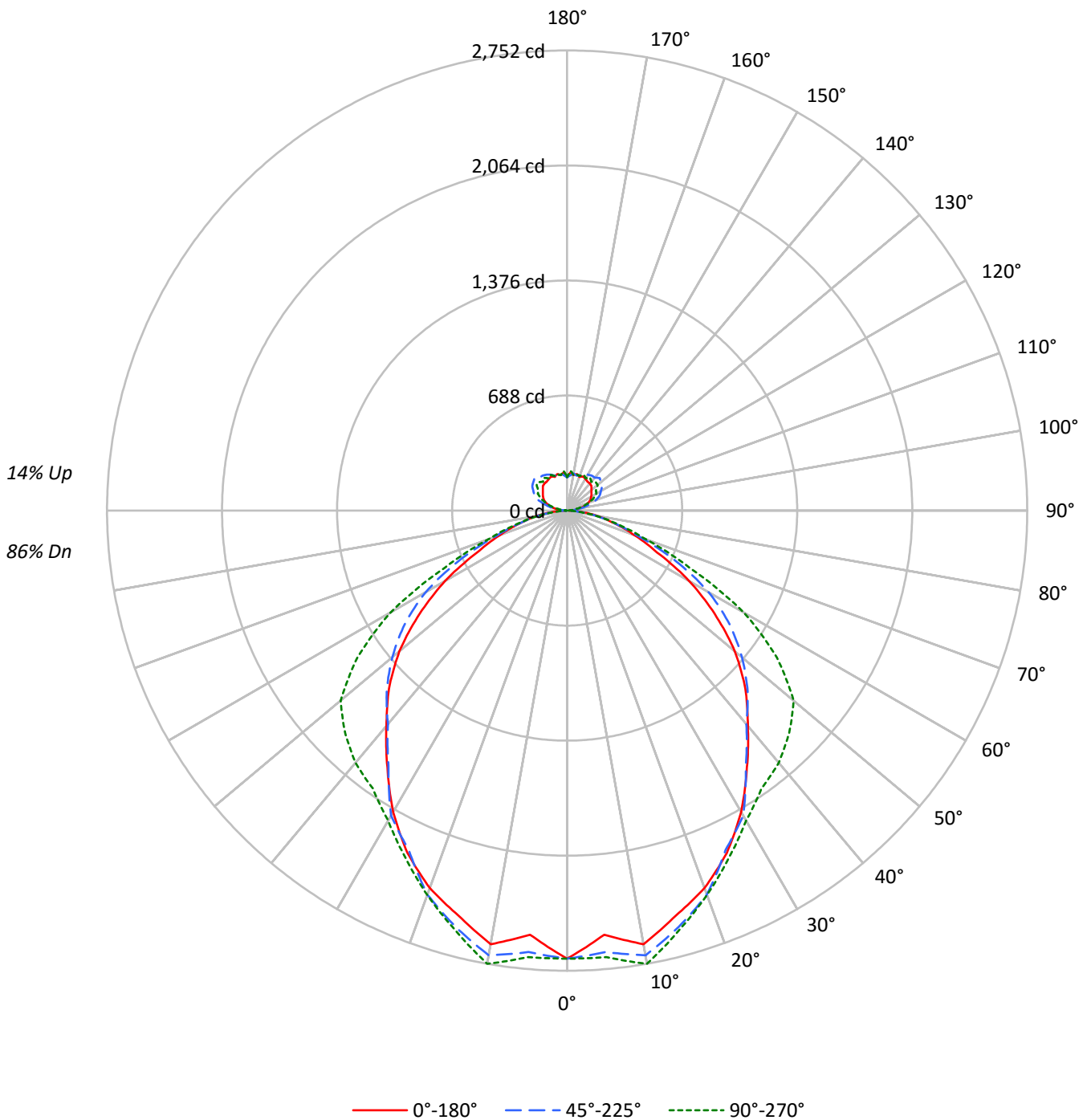
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 7787.2 lumens
Efficiency: 77.9%
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.2 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4.04' x H: 0.24')
CIE Type: Semi-Direct

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	90	90	90	90	87	87	87	87	80	80	80	75	75	75	69	69	69	67
1	83	79	76	74	80	77	74	71	71	69	67	66	65	63	62	61	59	57
2	76	70	65	61	73	67	63	59	63	59	56	59	56	53	55	53	50	48
3	69	61	56	51	66	59	54	50	56	51	47	52	48	45	49	46	43	41
4	63	55	48	43	61	53	47	42	50	45	41	47	42	39	44	40	37	35
5	58	49	42	37	56	47	41	37	45	39	35	42	37	34	39	36	33	31
6	54	44	37	33	52	43	37	32	40	35	31	38	33	30	36	32	29	27
7	50	40	33	29	48	39	33	28	37	31	27	35	30	27	33	29	26	24
8	47	36	30	26	45	35	30	25	34	28	25	32	27	24	30	26	23	21
9	43	33	27	23	42	33	27	23	31	26	22	29	25	21	28	24	21	19
10	41	31	25	21	39	30	24	21	29	24	20	27	23	20	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9513	9513	9513
5°	9027	9228	9294
10°	9395	9297	9393
15°	9075	8839	8787
20°	8886	8414	8281
25°	8612	7801	7809
30°	8249	7477	7412
35°	7802	6797	7183
40°	7423	6311	7197
45°	7143	6048	7149
50°	6757	5717	7074
55°	6146	5315	6511
60°	5427	4750	5586
65°	4423	3843	4023
70°	3807	2753	2745
75°	3218	1992	1913
80°	2794	1386	1202
85°	1880	630	436



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	254.7	3.3	2.5
10°-20°	723.8	9.3	7.2
20°-30°	1048.6	13.5	10.5
30°-40°	1205.2	15.5	12.1
40°-50°	1245.5	16.0	12.5
50°-60°	1101.6	14.1	11.0
60°-70°	712.5	9.1	7.1
70°-80°	323.7	4.2	3.2
80°-90°	81.3	1.0	0.8
90°-100°	39.4	0.5	0.4
100°-110°	129.8	1.7	1.3
110°-120°	191.2	2.5	1.9
120°-130°	204.5	2.6	2.0
130°-140°	188.8	2.4	1.9
140°-150°	150.1	1.9	1.5
150°-160°	105.1	1.4	1.1
160°-170°	61.5	0.8	0.6
170°-180°	20.0	0.3	0.2
0°-30°	2027.1	26.0	20.3
0°-40°	3232.3	41.5	32.3
0°-60°	5579.4	71.6	55.8
0°-90°	6696.8	86.0	67.0
90°-120°	360.3	4.6	3.6
90°-150°	903.7	11.6	9.0
90°-180°	1090.0	14.0	10.9
0°-180°	7787.2	100.0	77.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2679	2679	2679	2679	2679	
5°	2546	2651	2650	2704	2681	248
15°	2508	2540	2577	2579	2595	710
25°	2259	2274	2240	2278	2290	1038
35°	1875	1909	1862	1917	2028	1176
45°	1507	1510	1527	1743	1878	1159
55°	1077	1047	1187	1414	1532	963
65°	593	622	720	789	807	607
75°	286	296	290	303	306	312
85°	77	69	63	56	50	87
90°	12	6	3	1	2	21
95°	51	43	26	19	15	44
105°	107	142	134	118	98	112
115°	154	199	215	207	174	151
125°	177	223	255	243	209	159
135°	206	226	275	259	240	157
145°	212	238	255	245	239	134
155°	225	225	238	223	235	102
165°	227	225	216	203	223	63
175°	230	195	211	204	239	21
180°	199	199	199	199	199	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2679.4	2679.4	2679.4	2679.4	2679.4
5°	2546.0	2651.4	2649.9	2703.6	2680.6
10°	2633.1	2620.5	2700.6	2717.8	2752.2
15°	2508.1	2539.5	2577.2	2579.3	2595.3
20°	2402.5	2448.0	2444.0	2465.4	2446.4
25°	2259.2	2274.1	2240.0	2278.3	2290.1
30°	2081.0	2151.8	2105.8	2087.7	2141.3
35°	1874.7	1909.2	1862.2	1916.8	2027.7
40°	1681.2	1706.4	1667.5	1848.4	1969.0
45°	1507.0	1510.1	1526.9	1742.7	1878.5
50°	1309.8	1275.5	1365.3	1614.4	1768.2
55°	1077.0	1046.7	1187.0	1413.7	1531.6
60°	842.7	842.1	979.1	1149.5	1221.7
65°	593.4	622.2	720.1	789.2	806.8
70°	426.4	445.8	460.2	495.0	496.4
75°	286.5	295.8	290.3	303.4	305.7
80°	182.6	169.6	170.7	161.3	165.3
85°	77.4	69.0	62.8	55.5	49.8
90°	12.0	6.3	3.0	1.0	1.7
95°	51.4	43.0	26.5	18.7	14.6
100°	77.2	96.7	88.1	70.5	50.8
105°	107.4	141.5	134.2	118.1	98.0
110°	133.6	173.5	181.7	164.2	136.5
115°	154.0	199.0	214.9	206.9	174.2
120°	166.2	210.1	233.1	233.7	202.3
125°	177.4	223.3	254.6	243.0	209.3
130°	189.1	225.9	264.5	256.0	238.4
135°	206.2	226.4	275.0	258.9	240.5
140°	211.6	233.0	257.4	264.7	224.6
145°	211.6	238.0	255.3	244.8	239.4
150°	219.1	224.0	247.6	227.6	221.8
155°	224.6	225.4	237.5	223.1	235.0
160°	214.6	220.4	221.9	219.6	220.0
165°	226.6	225.2	215.7	203.0	223.1
170°	215.3	202.3	225.7	205.7	215.0
175°	230.1	194.7	210.8	204.4	238.8
180°	199.2	199.2	199.2	199.2	199.2

(END OF REPORT)