

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: CTL58836

Luminaire Tested: **NB-SW-2T5-DL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58836
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T5-DL4
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

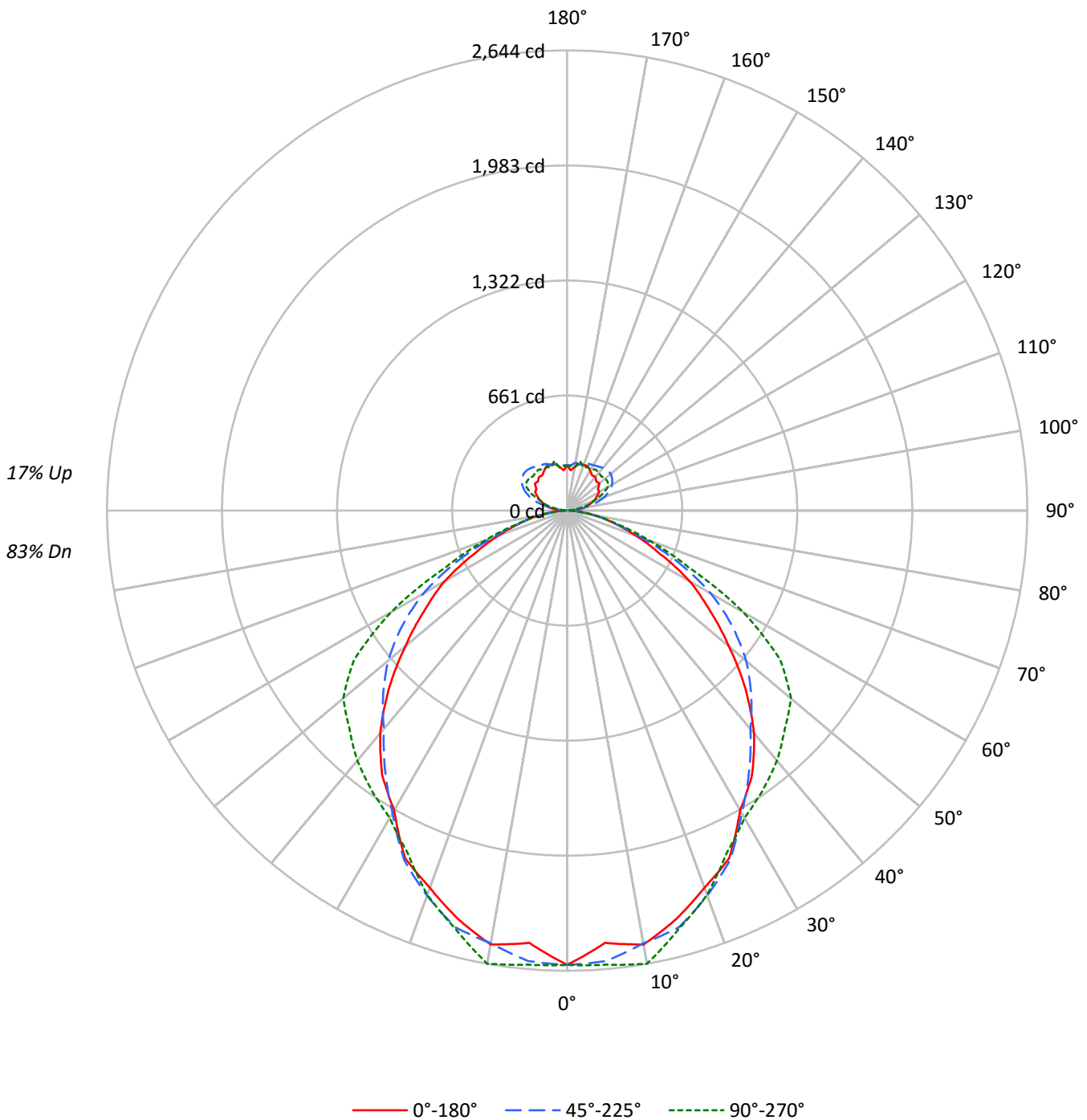
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 7819.7 lumens
Efficiency: 78.2%
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

Input Watts (W): 118
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	90	90	90	90	86	86	86	86	79	79	79		73	73	73		67	67	67	65
1	83	79	76	73	79	76	73	71	70	68	66		65	63	62		60	59	58	55
2	75	69	64	60	72	67	62	59	62	58	55		57	55	52		53	51	49	47
3	69	61	55	51	66	59	54	49	55	50	47		51	47	44		47	44	42	40
4	63	54	48	43	60	52	47	42	49	44	40		45	41	38		42	39	36	34
5	58	49	42	37	56	47	41	36	44	39	35		41	37	33		38	35	32	30
6	54	44	37	32	51	42	36	32	40	34	30		37	33	29		35	31	28	26
7	50	40	33	29	48	38	32	28	36	31	27		34	29	26		32	28	25	23
8	46	36	30	26	44	35	29	25	33	28	24		31	27	23		29	25	22	21
9	43	33	27	23	41	32	26	23	30	25	22		29	24	21		27	23	20	19
10	41	31	25	21	39	30	24	20	28	23	20		27	22	19		25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9367	9367	9367
5°	8933	9140	9177
10°	9127	8782	9118
15°	8878	8593	8508
20°	8618	8188	8036
25°	8486	7795	7476
30°	7960	7200	7131
35°	7790	6726	7017
40°	7452	6264	6930
45°	6939	5984	6806
50°	6318	5681	6790
55°	5764	5241	6423
60°	5294	4683	5410
65°	4436	3802	3873
70°	3753	2722	2808
75°	3130	1938	1850
80°	2607	1308	1202
85°	1701	627	465



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	245.7	3.1	2.5
10°-20°	693.8	8.9	6.9
20°-30°	1010.7	12.9	10.1
30°-40°	1167.6	14.9	11.7
40°-50°	1202.8	15.4	12.0
50°-60°	1060.1	13.6	10.6
60°-70°	691.4	8.8	6.9
70°-80°	314.5	4.0	3.1
80°-90°	78.7	1.0	0.8
90°-100°	47.4	0.6	0.5
100°-110°	162.5	2.1	1.6
110°-120°	239.9	3.1	2.4
120°-130°	257.0	3.3	2.6
130°-140°	230.3	2.9	2.3
140°-150°	183.5	2.3	1.8
150°-160°	130.6	1.7	1.3
160°-170°	78.3	1.0	0.8
170°-180°	24.9	0.3	0.2
0°-30°	1950.2	24.9	19.5
0°-40°	3117.8	39.9	31.2
0°-60°	5380.6	68.8	53.8
0°-90°	6465.2	82.7	64.7
90°-120°	449.8	5.8	4.5
90°-150°	1120.7	14.3	11.2
90°-180°	1354.0	17.3	13.5
0°-180°	7819.7	100.0	78.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2611	2611	2611	2611	2611	
5°	2493	2582	2597	2532	2619	241
15°	2428	2430	2480	2482	2486	684
25°	2204	2262	2215	2179	2170	1003
35°	1853	1881	1824	1837	1960	1154
45°	1449	1439	1496	1693	1770	1116
55°	1000	994	1159	1367	1495	901
65°	590	604	705	763	769	596
75°	276	288	280	296	292	300
85°	70	69	62	53	52	80
90°	11	7	3	2	2	21
95°	61	51	31	24	14	57
105°	128	179	171	151	127	138
115°	186	250	269	255	226	186
125°	216	280	316	302	285	198
135°	237	280	327	320	278	187
145°	248	283	309	304	287	159
155°	282	270	296	281	275	128
165°	279	275	273	278	292	78
175°	232	282	262	238	257	23
180°	258	258	258	258	258	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2610.7	2610.7	2610.7	2610.7	2610.7
5°	2493.2	2581.9	2597.2	2532.5	2619.1
10°	2531.7	2547.7	2524.4	2628.9	2643.7
15°	2428.4	2430.4	2479.6	2482.3	2486.3
20°	2306.3	2357.7	2353.8	2287.9	2349.3
25°	2203.5	2262.0	2215.2	2179.2	2169.5
30°	1987.7	2026.2	2006.8	1996.8	2038.5
35°	1853.0	1881.2	1824.0	1837.4	1960.1
40°	1670.9	1685.8	1638.2	1773.1	1876.0
45°	1449.3	1439.0	1495.6	1692.6	1769.6
50°	1212.7	1218.1	1343.0	1556.0	1679.4
55°	1000.3	994.5	1158.6	1366.6	1495.1
60°	814.3	797.0	955.7	1114.1	1171.0
65°	589.6	604.3	705.4	763.2	768.6
70°	416.6	430.4	450.7	482.6	502.6
75°	276.2	288.2	279.7	296.5	292.5
80°	169.0	168.0	159.6	154.9	163.5
85°	69.6	69.2	61.9	52.6	52.5
90°	11.0	6.9	2.8	1.7	2.1
95°	61.3	51.0	30.8	23.9	14.3
100°	102.8	117.7	104.5	88.7	59.8
105°	128.2	179.4	171.3	150.6	126.8
110°	164.2	223.2	228.6	199.2	158.6
115°	185.8	249.8	269.3	255.2	225.7
120°	212.8	267.4	299.2	292.7	269.8
125°	215.6	280.2	315.5	302.4	284.7
130°	241.8	277.2	328.0	319.7	287.2
135°	236.6	280.4	327.1	319.6	277.7
140°	252.0	287.0	320.4	326.1	282.4
145°	248.4	283.4	309.0	303.8	287.2
150°	264.0	277.5	300.9	295.4	271.9
155°	281.9	270.0	296.3	280.6	274.6
160°	279.1	282.1	282.3	282.4	266.0
165°	279.2	275.4	272.8	277.6	291.6
170°	255.5	269.3	279.2	268.3	251.2
175°	232.0	282.5	261.9	238.2	257.1
180°	258.5	258.5	258.5	258.5	258.5

(END OF REPORT)