

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: CTL58854

Luminaire Tested: **NB-SW-3T5-DL7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58854
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DL7
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

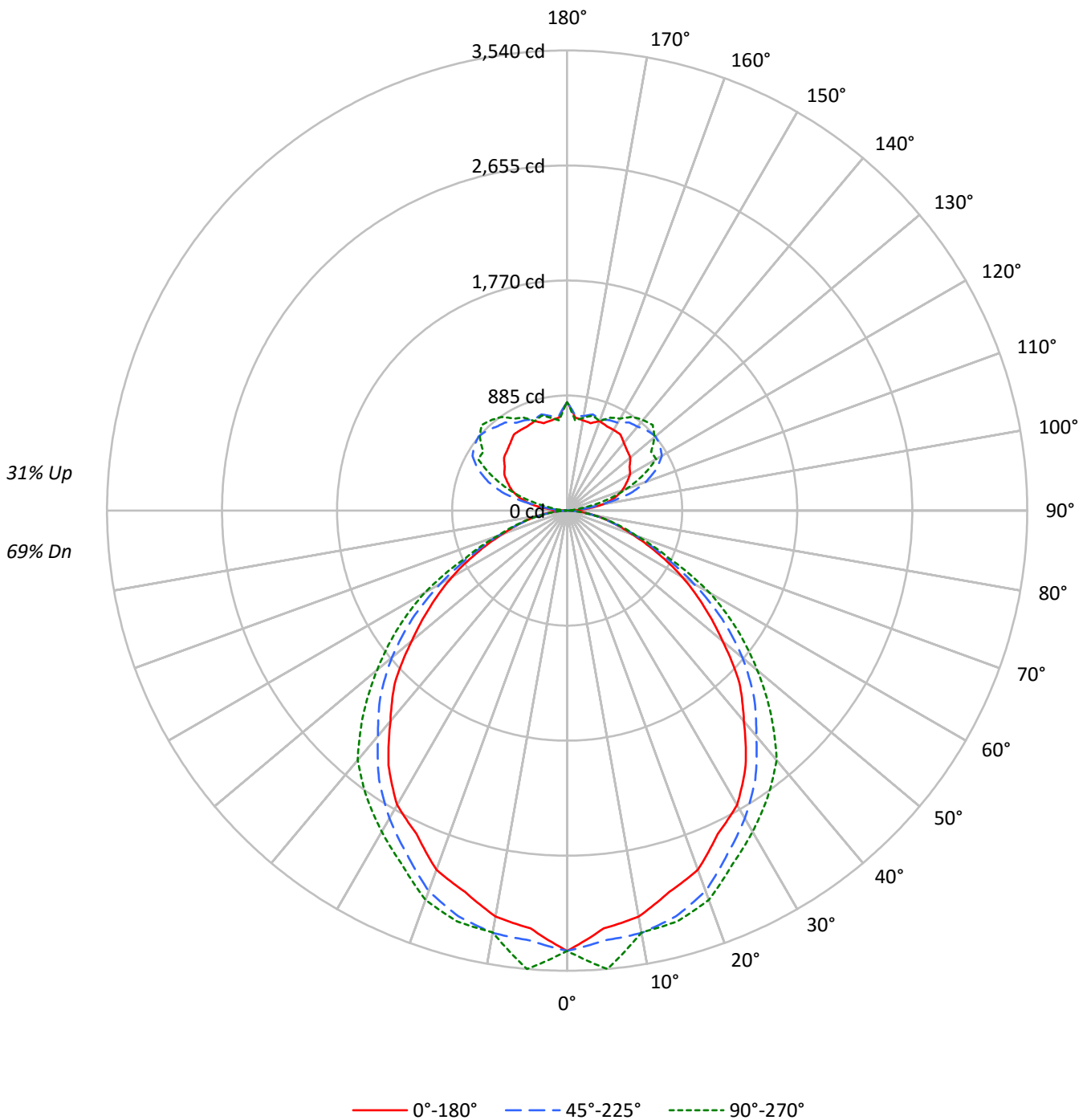
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 12029.4 lumens
Efficiency: 80.2%
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.25 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	90	90	90	90	85	85	85	85	75	75	75	67	67	67	59	59	59	55																												
1	82	79	76	73	78	75	72	69	67	65	63	60	58	57	53	52	51	47																												
2	75	69	64	60	71	66	61	58	59	55	53	53	50	48	47	45	43	40																												
3	69	61	55	50	65	58	53	48	52	48	44	47	43	41	42	39	37	34																												
4	63	54	48	43	59	52	46	41	47	42	38	42	38	35	37	35	32	30																												
5	58	49	42	37	55	46	40	36	42	37	33	38	34	31	34	31	28	26																												
6	54	44	37	32	50	42	36	31	38	33	29	34	30	27	31	27	25	23																												
7	50	40	33	29	47	38	32	28	34	29	26	31	27	24	28	25	22	20																												
8	46	36	30	25	44	34	29	25	31	26	23	29	24	21	26	22	20	18																												
9	43	33	27	23	41	32	26	22	29	24	21	26	22	19	24	20	18	16																												
10	40	30	24	21	38	29	24	20	27	22	19	24	20	18	22	19	16	15																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12155	12155	12155
5°	11560	11679	12404
10°	11433	11476	11368
15°	11102	11200	11195
20°	10990	10835	10903
25°	10564	10264	10355
30°	10475	9810	9980
35°	10067	9308	9630
40°	9432	8653	9261
45°	8978	8141	8532
50°	8130	7447	7718
55°	7392	6582	6867
60°	6661	5514	5859
65°	5703	4356	4350
70°	4747	3377	3161
75°	4042	2459	2402
80°	3477	1708	1501
85°	2297	783	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	319.8	2.7	2.1
10°-20°	903.1	7.5	6.0
20°-30°	1341.9	11.2	8.9
30°-40°	1577.7	13.1	10.5
40°-50°	1569.9	13.1	10.5
50°-60°	1283.4	10.7	8.6
60°-70°	823.8	6.8	5.5
70°-80°	395.6	3.3	2.6
80°-90°	102.6	0.9	0.7
90°-100°	114.1	0.9	0.8
100°-110°	444.8	3.7	3.0
110°-120°	672.4	5.6	4.5
120°-130°	710.4	5.9	4.7
130°-140°	638.6	5.3	4.3
140°-150°	504.1	4.2	3.4
150°-160°	349.4	2.9	2.3
160°-170°	208.3	1.7	1.4
170°-180°	69.5	0.6	0.5
0°-30°	2564.9	21.3	17.1
0°-40°	4142.6	34.4	27.6
0°-60°	6995.9	58.2	46.6
0°-90°	8317.9	69.1	55.5
90°-120°	1231.3	10.2	8.2
90°-150°	3084.4	25.6	20.6
90°-180°	3711.0	30.8	24.7
0°-180°	12029.4	100.0	80.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3388	3388	3388	3388	3388	
5°	3226	3328	3319	3455	3540	308
15°	3037	3105	3232	3291	3272	861
25°	2743	2903	2917	2935	3005	1274
35°	2395	2438	2524	2580	2690	1490
45°	1875	1943	2034	2179	2218	1433
55°	1283	1313	1455	1518	1598	1152
65°	758	780	808	861	863	759
75°	357	367	355	369	380	387
85°	94	88	77	72	72	107
90°	16	7	4	3	3	37
95°	141	127	71	44	31	148
105°	377	511	495	378	310	393
115°	504	718	757	702	642	500
125°	586	733	872	863	788	530
135°	652	737	871	918	931	507
145°	714	754	828	867	879	443
155°	716	723	768	755	788	333
165°	696	728	766	716	756	201
175°	718	677	730	712	696	69
180°	833	833	833	833	833	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3387.6	3387.6	3387.6	3387.6	3387.6
5°	3226.4	3328.0	3318.8	3454.8	3540.2
10°	3171.3	3318.7	3298.8	3390.5	3296.0
15°	3036.8	3105.2	3231.7	3290.8	3271.6
20°	2941.0	3038.4	3114.7	3104.3	3187.3
25°	2742.8	2902.9	2916.9	2935.2	3005.0
30°	2615.8	2682.3	2734.4	2785.2	2853.0
35°	2394.8	2437.6	2524.0	2580.0	2690.1
40°	2114.9	2207.4	2263.2	2406.7	2507.2
45°	1875.2	1943.0	2034.5	2178.7	2218.5
50°	1560.5	1625.7	1760.4	1817.8	1908.9
55°	1282.8	1313.0	1455.1	1517.9	1598.3
60°	1024.5	1052.5	1125.2	1244.6	1268.1
65°	758.0	780.1	808.1	860.9	863.3
70°	526.9	546.9	559.0	585.9	565.7
75°	356.7	367.3	354.9	369.0	379.8
80°	225.4	216.1	208.4	203.5	204.2
85°	94.0	88.5	77.3	72.1	71.5
90°	16.5	7.0	3.8	2.6	3.0
95°	141.4	126.6	71.1	43.7	31.2
100°	283.8	331.7	261.3	198.6	129.6
105°	377.0	511.4	494.7	378.4	309.8
110°	450.5	631.1	643.6	546.8	483.4
115°	503.8	717.6	756.9	701.8	642.4
120°	558.3	740.6	840.3	811.8	790.9
125°	585.9	732.6	871.8	862.8	788.1
130°	634.5	742.4	887.8	915.2	876.4
135°	652.3	737.1	870.9	918.5	931.1
140°	679.3	736.7	842.7	879.9	908.4
145°	714.0	753.7	827.7	867.2	879.2
150°	716.1	726.3	780.0	811.9	816.5
155°	716.4	722.7	767.9	755.2	788.5
160°	731.6	735.9	744.5	774.9	731.6
165°	696.0	728.0	765.6	715.9	756.3
170°	704.4	717.8	737.9	712.0	724.0
175°	718.1	676.9	729.5	712.2	695.7
180°	833.4	833.4	833.4	833.4	833.4

(END OF REPORT)