

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: CTL58874

Luminaire Tested: **NB-SW-3T8-DL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58874  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-DL1  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT  
  
Light Source: 32 WATT T8 LAMP  
FP32T8/835. LUMEN RATING = 2900 LMS.  
Ballast/Driver: -

**Summary**

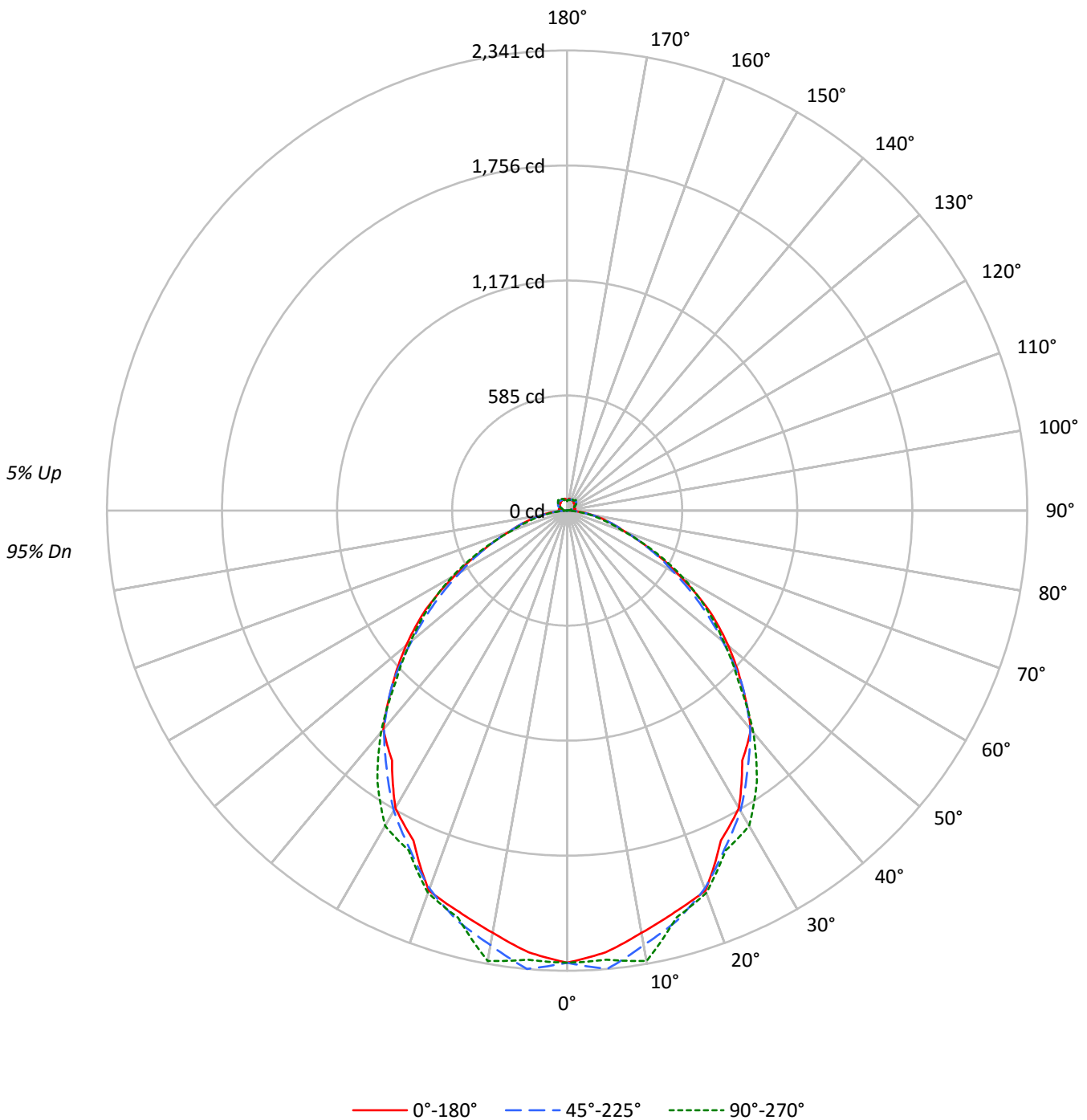
Lumens per Lamp: 2900 (3 lamps)  
Luminaire Lumens: 5466.4 lumens  
Efficiency: 62.8%  
Efficacy: 46.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.2 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Direct

Input Watts (W): 117  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	74	74	74	74	72	72	72	72	68	68	68		64	64	64		61	61	61	60
1	68	66	63	61	66	64	62	60	61	59	57		58	56	55		55	54	53	51
2	63	58	54	51	61	57	53	50	54	51	48		51	49	47		49	47	45	44
3	58	51	47	43	56	50	46	42	48	44	41		46	43	40		44	41	39	38
4	53	46	41	37	51	45	40	37	43	39	36		41	38	35		40	37	34	33
5	49	41	36	32	47	40	36	32	39	35	31		37	34	31		36	33	30	29
6	45	37	32	28	44	37	32	28	35	31	28		34	30	27		33	29	27	25
7	42	34	29	25	41	33	29	25	32	28	25		31	27	24		30	27	24	23
8	39	31	26	23	38	31	26	22	30	25	22		29	25	22		28	24	22	20
9	37	29	24	20	36	28	24	20	27	23	20		26	23	20		26	22	20	18
10	35	27	22	19	34	26	22	19	25	21	18		25	21	18		24	20	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8252	8252	8252
5°	8082	8239	8036
10°	7863	7809	8027
15°	7733	7484	7337
20°	7689	7120	7079
25°	7129	6675	6575
30°	6997	6327	6480
35°	6528	5906	6024
40°	6487	5538	5443
45°	6024	5050	4743
50°	5578	4363	4211
55°	5057	3725	3701
60°	4269	3067	3138
65°	3510	2496	2442
70°	2800	1893	1669
75°	2441	1488	1214
80°	2042	999	801
85°	1352	472	299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	217.0	4.0	2.5
10°-20°	607.9	11.1	7.0
20°-30°	882.0	16.1	10.1
30°-40°	1013.2	18.5	11.6
40°-50°	958.8	17.5	11.0
50°-60°	755.1	13.8	8.7
60°-70°	472.1	8.6	5.4
70°-80°	225.9	4.1	2.6
80°-90°	58.7	1.1	0.7
90°-100°	14.7	0.3	0.2
100°-110°	32.0	0.6	0.4
110°-120°	43.6	0.8	0.5
120°-130°	48.7	0.9	0.6
130°-140°	47.3	0.9	0.5
140°-150°	39.4	0.7	0.5
150°-160°	28.2	0.5	0.3
160°-170°	16.5	0.3	0.2
170°-180°	5.3	0.1	0.1
0°-30°	1706.8	31.2	19.6
0°-40°	2720.1	49.8	31.3
0°-60°	4433.9	81.1	51.0
0°-90°	5190.6	95.0	59.7
90°-120°	90.3	1.7	1.0
90°-150°	225.7	4.1	2.6
90°-180°	276.0	5.0	3.2
0°-180°	5466.4	100.0	62.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2256	2275	2341	2252	2294	213
15°	2115	2147	2160	2185	2144	599
25°	1851	1914	1897	1947	1908	865
35°	1553	1598	1601	1660	1683	988
45°	1258	1246	1262	1208	1233	973
55°	878	868	824	827	862	778
65°	466	467	463	480	485	470
75°	215	217	215	202	192	231
85°	55	51	47	40	34	63
90°	11	3	1	1	1	16
95°	38	19	9	5	4	28
105°	41	39	28	23	22	43
115°	42	48	47	44	38	40
125°	45	55	57	58	55	40
135°	54	58	65	65	65	40
145°	61	63	61	68	62	36
155°	58	57	61	66	65	27
165°	58	62	57	55	55	17
175°	56	58	57	55	55	5
180°	48	48	48	48	48	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2300.0	2300.0	2300.0	2300.0	2300.0
5°	2255.6	2275.0	2341.1	2252.2	2293.6
10°	2181.0	2255.1	2244.7	2233.0	2327.2
15°	2115.3	2146.8	2159.6	2185.3	2144.3
20°	2057.6	2049.4	2046.8	2047.2	2069.6
25°	1851.1	1914.3	1896.9	1946.7	1908.1
30°	1747.2	1744.9	1763.7	1801.3	1852.5
35°	1552.9	1597.7	1601.4	1660.5	1682.9
40°	1454.6	1424.4	1448.4	1485.2	1473.5
45°	1258.3	1246.1	1262.1	1207.5	1233.2
50°	1070.6	1045.3	1031.3	1004.0	1041.6
55°	877.6	868.1	823.5	826.6	861.5
60°	656.6	657.7	625.8	649.4	679.2
65°	466.5	466.7	463.0	480.3	484.6
70°	310.8	325.1	313.4	321.6	298.6
75°	215.4	216.8	214.8	202.0	192.0
80°	132.4	128.0	121.9	115.6	109.0
85°	55.3	51.4	46.6	40.1	33.8
90°	11.2	3.2	1.3	0.6	0.8
95°	37.5	18.8	9.2	4.7	4.0
100°	43.0	35.4	21.8	13.0	11.2
105°	41.2	38.9	27.9	23.4	21.6
110°	37.0	45.0	35.5	31.7	27.8
115°	42.3	47.8	46.9	44.0	37.5
120°	40.6	53.4	53.2	52.6	45.6
125°	44.8	54.9	56.7	57.6	54.7
130°	49.0	51.8	61.3	61.7	60.1
135°	54.2	58.1	64.8	64.7	65.2
140°	49.2	59.2	65.6	69.2	70.4
145°	60.7	62.7	60.8	68.4	61.5
150°	56.9	59.1	61.1	65.4	59.6
155°	57.9	57.3	61.0	66.2	65.2
160°	59.4	62.1	60.6	55.6	61.3
165°	58.3	61.9	57.0	55.1	54.6
170°	61.7	57.7	57.2	57.5	56.0
175°	55.7	58.3	56.6	54.6	55.4
180°	48.3	48.3	48.3	48.3	48.3

(END OF REPORT)