

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: 17886

Luminaire Tested: **NB-SC-1T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17886  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SC-1T8  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND WHITE LENS OVER CONCAVE PERF  
PANEL  
Light Source: ONE PHILIPS 32 WATT T8 LAMP  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

**Summary**

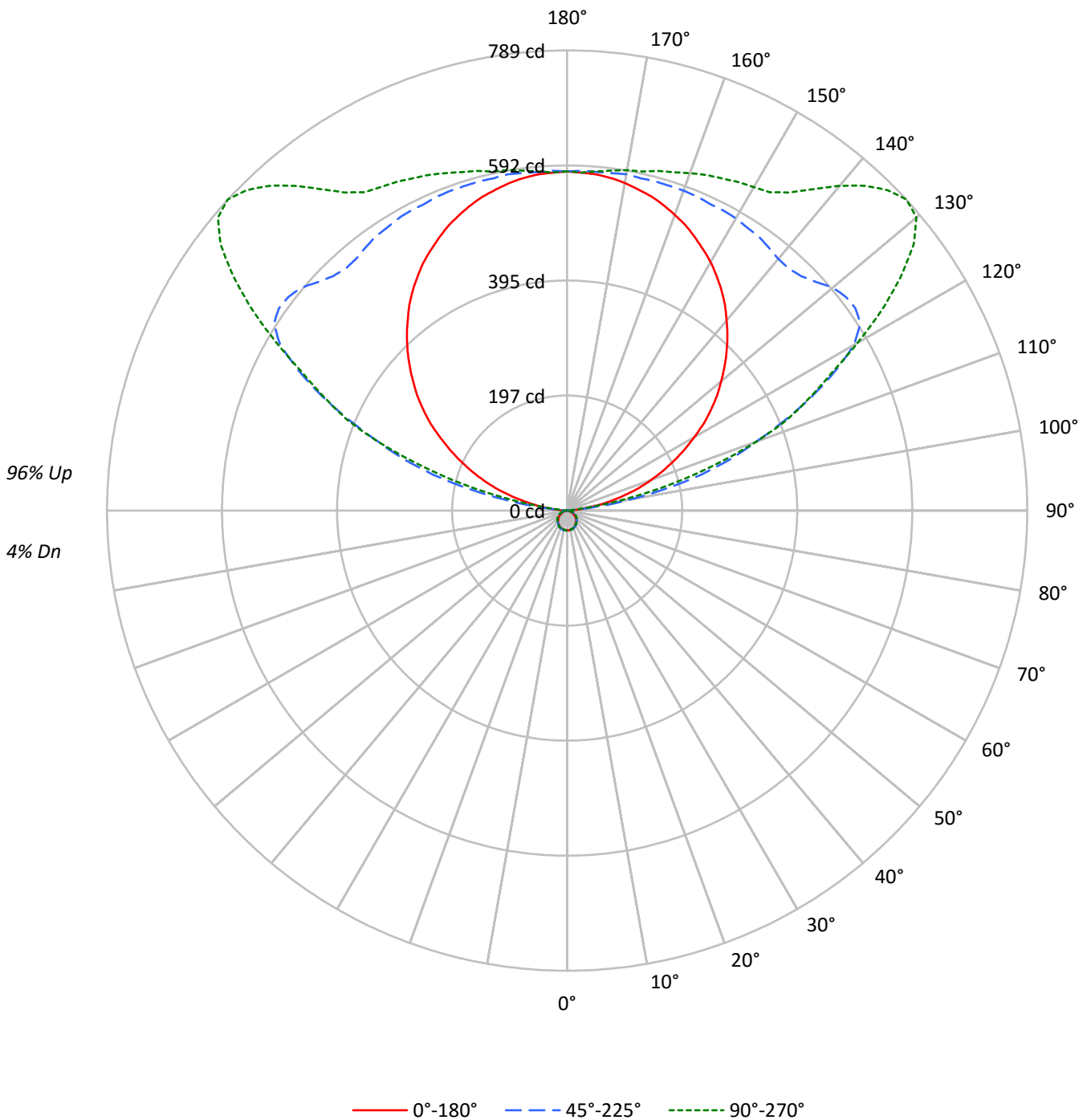
Lumens per Lamp: 3000 (1 lamp)  
Luminaire Lumens: 2523.1 lumens  
Efficiency: 84.1%  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.33' x L: 3.59' x H: 0')  
CIE Type: Indirect

Input Watts (W): 32  
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	81	81	81	81	70	70	70	70	49	49	49	29	29	29	12	12	12	3
1	74	70	67	64	63	60	58	56	42	41	39	26	25	24	10	10	10	3
2	67	61	56	52	57	53	49	46	37	35	33	22	21	20	9	8	8	2
3	61	54	48	43	52	46	42	38	32	30	27	20	18	17	8	7	7	2
4	56	47	41	36	48	41	36	32	29	25	23	17	16	14	7	6	6	2
5	51	42	36	31	43	36	31	27	25	22	20	16	14	12	6	6	5	1
6	47	37	31	26	40	32	27	23	23	19	17	14	12	11	6	5	4	1
7	43	33	27	23	37	29	24	20	20	17	15	12	11	9	5	4	4	1
8	40	30	24	20	34	26	21	17	18	15	13	11	9	8	5	4	3	1
9	37	27	21	17	31	24	19	15	17	13	11	10	8	7	4	3	3	1
10	34	25	19	15	29	21	17	14	15	12	10	9	8	6	4	3	3	1

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

	0°	45°	90°
0°	310	310	310
5°	310	302	310
10°	309	314	305
15°	307	311	311
20°	307	311	302
25°	298	307	318
30°	287	302	302
35°	294	299	294
40°	287	298	308
45°	279	287	305
50°	267	294	312
55°	255	299	299
60°	240	283	318
65°	234	292	316
70°	178	287	300
75°	165	298	298
80°	120	277	246
85°	104	292	292



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.2	0.1	0.1
10°-20°	9.2	0.4	0.3
20°-30°	13.8	0.5	0.5
30°-40°	16.7	0.7	0.6
40°-50°	17.6	0.7	0.6
50°-60°	16.3	0.6	0.5
60°-70°	12.8	0.5	0.4
70°-80°	7.6	0.3	0.3
80°-90°	2.2	0.1	0.1
90°-100°	31.0	1.2	1.0
100°-110°	216.8	8.6	7.2
110°-120°	395.8	15.7	13.2
120°-130°	484.8	19.2	16.2
130°-140°	448.8	17.8	15.0
140°-150°	358.2	14.2	11.9
150°-160°	267.4	10.6	8.9
160°-170°	165.2	6.5	5.5
170°-180°	55.7	2.2	1.9
0°-30°	26.2	1.0	0.9
0°-40°	42.9	1.7	1.4
0°-60°	76.8	3.0	2.6
0°-90°	99.4	3.9	3.3
90°-120°	643.7	25.5	21.5
90°-150°	1935.4	76.7	64.5
90°-180°	2424.0	96.1	80.8
0°-180°	2523.1	100.0	84.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	34	34	34	34	34	
5°	34	34	33	34	34	3
15°	33	33	33	32	33	9
25°	30	29	31	29	32	14
35°	26	27	27	28	26	16
45°	22	22	22	23	24	17
55°	16	18	19	19	19	15
65°	11	12	14	13	15	10
75°	5	8	8	8	8	4
85°	1	2	3	2	3	1
90°	0	0	0	0	0	1
95°	18	31	8	3	2	23
105°	102	226	237	215	204	109
115°	202	346	463	462	459	200
125°	301	387	604	679	698	268
135°	387	452	568	722	777	298
145°	461	505	573	634	666	288
155°	517	543	580	617	628	239
165°	558	569	584	599	603	157
175°	578	581	583	584	584	55
180°	581	581	581	581	581	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	34.1	34.1	34.1	34.1	34.1
2.5°	33.5	33.5	34.0	33.5	34.5
5°	34.0	33.5	33.1	33.5	34.0
7.5°	34.0	33.5	34.5	33.6	33.1
10°	33.5	33.1	34.0	33.1	33.1
12.5°	32.6	32.7	33.5	33.1	32.6
15°	32.6	32.7	33.1	31.7	33.1
17.5°	31.7	30.6	32.6	32.7	32.2
20°	31.7	30.6	32.2	30.6	31.2
22.5°	31.7	30.6	31.2	30.6	31.7
25°	29.7	28.8	30.6	29.3	31.7
27.5°	29.3	28.8	29.9	29.3	29.9
30°	27.4	28.3	28.8	27.8	28.8
32.5°	27.4	27.0	28.3	27.8	27.4
35°	26.5	26.9	27.0	27.8	26.5
37.5°	24.6	25.0	26.0	25.1	26.0
40°	24.2	24.2	25.1	24.6	26.0
42.5°	23.7	23.2	24.2	23.7	25.0
45°	21.7	22.1	22.3	23.2	23.7
47.5°	21.4	21.4	21.7	21.7	23.2
50°	18.9	20.3	20.8	20.8	22.1
52.5°	18.9	19.4	19.3	19.9	20.8
55°	16.1	17.5	18.9	19.4	18.9
57.5°	15.7	16.5	16.6	17.5	17.5
60°	13.2	15.2	15.6	17.5	17.5
62.5°	11.3	14.2	14.2	14.7	15.6
65°	10.9	11.8	13.6	13.2	14.7
67.5°	9.5	11.3	11.8	11.8	12.9
70°	6.7	9.5	10.8	11.3	11.3
72.5°	4.7	8.1	9.0	9.4	9.5
75°	4.7	7.6	8.5	8.1	8.5
77.5°	2.8	6.2	4.7	6.2	6.2
80°	2.3	4.4	5.3	4.2	4.7
82.5°	1.5	3.3	2.9	2.8	3.8
85°	1.0	1.9	2.8	2.3	2.8
87.5°	0.5	0.5	1.0	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5
92.5°	4.2	4.2	1.5	1.0	1.4
95°	18.5	31.2	7.6	3.3	1.9
97.5°	35.0	78.4	52.4	29.7	18.0
100°	55.7	139.2	110.9	100.2	72.2
102.5°	78.9	162.4	173.1	130.2	135.1
105°	102.0	226.0	237.3	214.7	204.4
107.5°	128.9	274.7	293.5	286.9	272.6
110°	153.0	311.0	344.0	347.3	345.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	177.5	333.0	403.3	408.1	409.1
115°	202.1	345.9	463.4	461.9	459.1
117.5°	227.0	355.8	518.5	522.9	511.4
120°	251.5	363.7	568.1	586.0	574.8
122.5°	277.5	381.2	595.9	655.2	639.8
125°	301.1	386.9	603.9	678.9	697.7
127.5°	323.8	406.7	602.1	728.4	748.7
130°	344.9	422.3	594.5	742.6	781.7
132.5°	366.1	436.8	579.9	736.9	789.3
135°	386.9	452.0	568.1	722.2	777.1
137.5°	406.7	465.2	562.4	699.2	755.3
140°	425.5	478.0	563.3	673.7	726.6
142.5°	444.4	489.8	568.1	650.6	694.5
145°	461.4	504.8	573.2	634.1	665.7
147.5°	477.0	510.9	575.1	629.4	646.9
150°	492.1	523.6	578.5	623.7	640.2
152.5°	504.8	533.5	579.9	621.9	635.0
155°	517.4	542.6	579.9	616.6	628.3
157.5°	529.8	550.5	582.7	612.9	622.7
160°	539.7	558.1	583.6	607.6	615.6
162.5°	549.3	564.3	583.6	603.3	608.1
165°	557.6	569.0	584.2	598.7	602.8
167.5°	563.8	574.8	583.6	593.6	595.5
170°	570.4	577.6	585.6	592.5	592.7
172.5°	575.1	580.4	583.6	587.4	587.9
175°	578.5	581.2	582.6	584.5	583.6
177.5°	579.9	581.7	583.3	582.2	580.3
180°	581.4	581.4	581.4	581.4	581.4

(END OF REPORT)