

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: CTL58832

Luminaire Tested: **NB-SW-1T8-DL8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58832  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-1T8-DL8  
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**

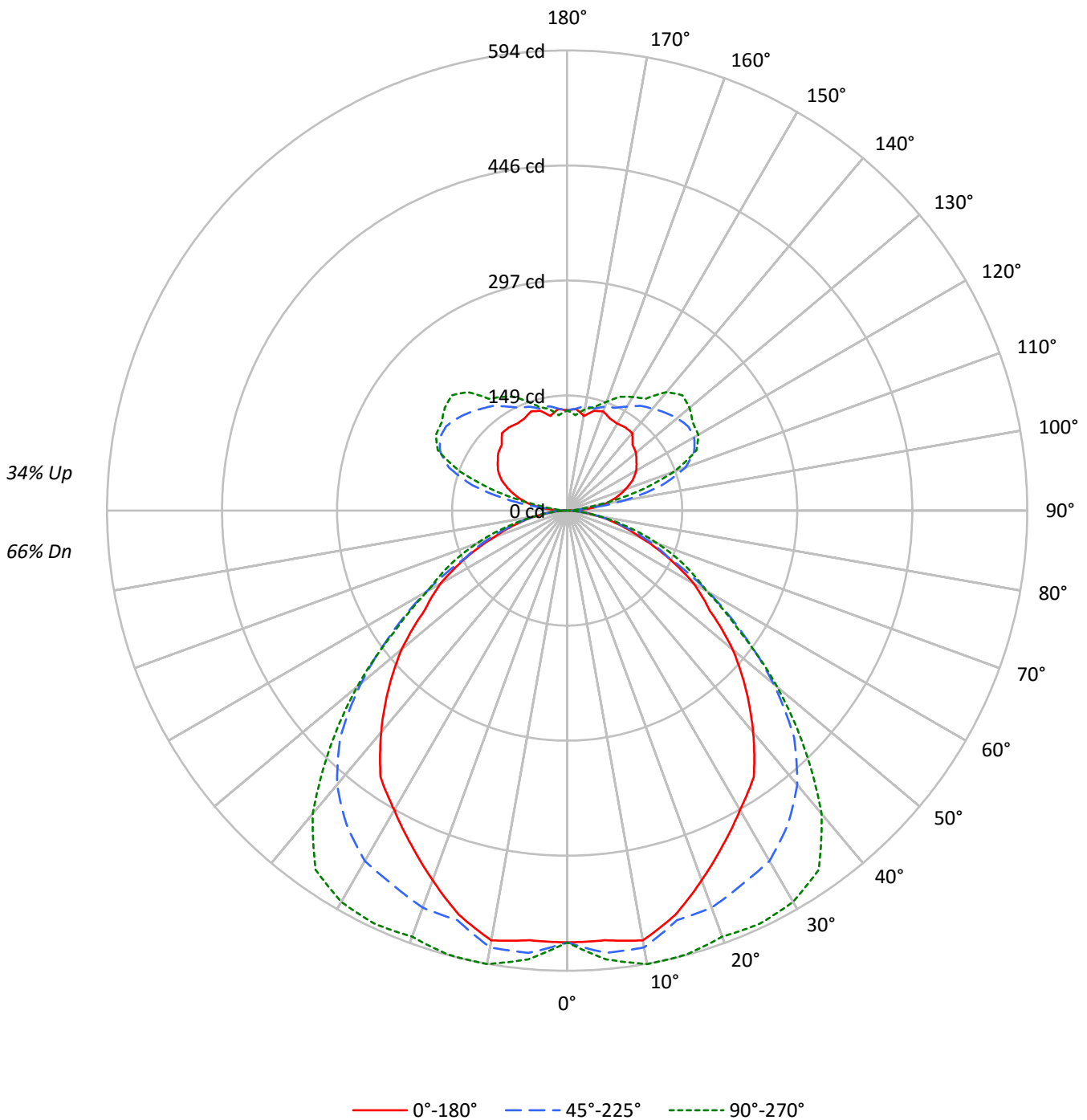
Lumens per Lamp: 2900 (1 lamp)  
Luminaire Lumens: 2364.5 lumens  
Efficiency: 81.5%  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 39  
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	90	90	90	90	85	85	85	85	75	75	75	66	66	66	58	58	58	54
1	83	79	76	73	78	75	72	70	66	64	62	59	57	56	52	50	49	46
2	76	70	65	60	71	66	61	58	59	55	52	52	49	47	46	44	42	39
3	69	61	55	51	65	58	53	48	52	48	44	46	43	40	41	38	36	33
4	63	55	48	43	59	52	46	41	46	41	38	41	37	34	36	33	31	28
5	58	49	42	37	55	46	40	36	41	36	33	37	33	30	33	30	27	25
6	54	44	37	32	50	42	35	31	37	32	29	33	29	26	30	26	24	22
7	50	40	33	28	47	38	32	27	34	29	25	30	26	23	27	24	21	19
8	46	36	30	25	43	34	28	24	31	26	22	28	24	21	25	22	19	17
9	43	33	27	22	41	31	26	22	28	24	20	26	22	19	23	20	17	15
10	40	30	24	20	38	29	23	20	26	21	18	24	20	17	21	18	16	14

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

	0°	45°	90°
0°	2000	2000	2000
5°	1995	2017	2037
10°	2031	1992	2050
15°	1974	1897	2030
20°	1898	1897	2002
25°	1834	1875	2028
30°	1787	1874	2040
35°	1766	1829	2026
40°	1666	1767	1888
45°	1563	1657	1665
50°	1453	1472	1432
55°	1295	1252	1168
60°	1229	1032	959
65°	1081	786	846
70°	904	656	695
75°	772	499	507
80°	620	336	307
85°	418	169	114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	54.1	2.3	1.9
10°-20°	157.7	6.7	5.4
20°-30°	247.3	10.5	8.5
30°-40°	306.9	13.0	10.6
40°-50°	303.7	12.8	10.5
50°-60°	237.2	10.0	8.2
60°-70°	153.9	6.5	5.3
70°-80°	78.8	3.3	2.7
80°-90°	20.3	0.9	0.7
90°-100°	27.5	1.2	0.9
100°-110°	109.9	4.6	3.8
110°-120°	157.9	6.7	5.4
120°-130°	155.0	6.6	5.3
130°-140°	132.9	5.6	4.6
140°-150°	101.0	4.3	3.5
150°-160°	68.6	2.9	2.4
160°-170°	39.1	1.7	1.3
170°-180°	12.7	0.5	0.4
0°-30°	459.1	19.4	15.8
0°-40°	766.0	32.4	26.4
0°-60°	1306.9	55.3	45.1
0°-90°	1559.9	66.0	53.8
90°-120°	295.3	12.5	10.2
90°-150°	684.2	28.9	23.6
90°-180°	805.0	34.0	27.8
0°-180°	2364.5	100.0	81.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	557	567	573	575	582	53
15°	540	539	547	575	593	152
25°	476	507	533	568	588	220
35°	420	446	496	537	566	260
45°	326	364	414	426	433	252
55°	225	258	277	272	272	205
65°	144	152	146	161	168	143
75°	68	69	72	76	80	73
85°	17	17	17	14	13	19
90°	3	2	1	1	1	7
95°	27	30	17	11	9	26
105°	65	110	127	109	93	69
115°	93	138	181	190	184	92
125°	109	144	190	204	198	98
135°	120	141	179	203	210	94
145°	131	143	165	181	176	82
155°	131	142	146	157	162	61
165°	133	132	136	141	138	37
175°	132	135	132	140	124	12
180°	129	129	129	129	129	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	557.4	557.4	557.4	557.4	557.4
5°	556.7	566.7	573.1	575.3	581.5
10°	563.4	536.2	572.5	567.6	594.4
15°	540.0	539.2	547.4	574.7	593.4
20°	507.8	523.5	545.4	582.2	585.3
25°	476.2	507.3	532.9	568.1	588.5
30°	446.3	478.8	522.3	566.2	583.2
35°	420.0	446.1	496.0	536.6	566.1
40°	373.5	409.4	462.1	494.9	511.0
45°	326.4	363.9	414.2	425.8	432.9
50°	278.8	309.6	347.9	346.8	354.1
55°	224.7	258.0	276.7	272.2	271.9
60°	189.0	203.2	210.6	202.0	207.6
65°	143.7	151.5	145.8	161.1	167.9
70°	100.4	103.2	108.6	121.4	124.4
75°	68.1	69.1	72.0	76.5	80.1
80°	40.2	41.9	41.0	41.7	41.8
85°	17.1	17.1	16.7	14.3	12.9
90°	3.3	2.0	1.0	1.0	0.6
95°	26.7	30.0	17.0	11.4	8.6
100°	49.5	81.2	73.1	49.5	35.0
105°	65.4	110.2	126.7	109.2	92.7
110°	80.1	129.9	162.5	163.1	146.8
115°	93.4	137.9	181.0	189.5	184.4
120°	103.0	143.8	189.4	202.0	195.5
125°	109.3	143.9	190.3	204.2	197.9
130°	116.0	142.7	185.2	207.3	206.2
135°	119.5	140.7	178.9	203.2	210.5
140°	130.6	143.2	171.7	193.2	199.6
145°	131.0	142.9	165.0	180.9	176.1
150°	129.5	142.4	154.9	164.4	169.3
155°	130.9	141.5	146.3	157.2	162.0
160°	136.2	139.2	142.6	149.1	149.7
165°	133.1	131.7	136.2	141.4	138.4
170°	124.0	134.4	136.8	135.9	132.9
175°	131.6	134.8	132.0	139.5	123.5
180°	129.3	129.3	129.3	129.3	129.3

(END OF REPORT)