

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: CTL58876

Luminaire Tested: **NB-SW-3T8-DL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58876  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-DL3  
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**

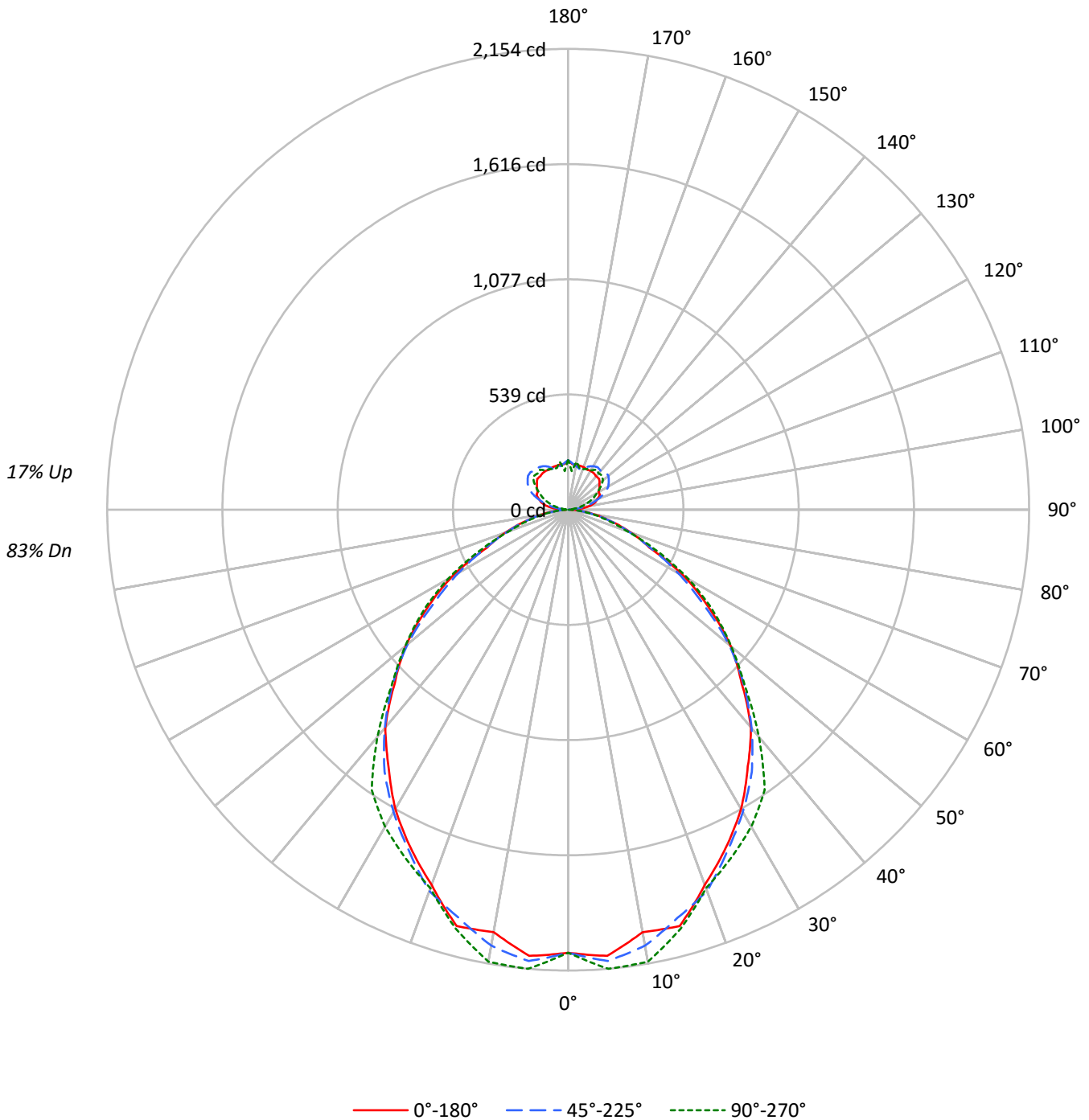
Lumens per Lamp: 2900 (3 lamps)  
Luminaire Lumens: 5852.6 lumens  
Efficiency: 67.3%  
Efficacy: 50.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4.04' x H: 0.24')  
CIE Type: Semi-Direct

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	77	77	77	77	74	74	74	74	68	68	68		63	63	63		58	58	58	56
1	71	68	66	63	68	66	63	61	61	59	57		56	55	54		52	51	50	48
2	65	60	56	53	62	58	54	51	54	51	48		50	48	46		46	45	43	41
3	60	53	48	44	57	52	47	43	48	44	41		45	42	39		42	39	37	35
4	55	48	42	38	53	46	41	37	43	39	36		40	37	34		37	35	32	30
5	51	43	37	33	49	41	36	32	39	34	31		36	33	30		34	31	28	27
6	47	39	33	29	45	37	32	28	35	31	27		33	29	26		31	28	25	24
7	44	35	30	26	42	34	29	25	32	28	24		30	26	23		28	25	22	21
8	41	32	27	23	39	31	26	23	29	25	22		28	24	21		26	23	20	19
9	38	29	24	21	36	29	24	20	27	23	20		26	22	19		24	21	18	17
10	36	27	22	19	34	26	22	19	25	21	18		24	20	17		22	19	17	16

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

	0°	45°	90°
0°	7352	7352	7352
5°	7422	7374	7468
10°	7153	7124	7322
15°	7289	6773	6867
20°	6902	6530	6372
25°	6645	6130	6130
30°	6405	5794	5921
35°	6091	5459	5668
40°	5867	5043	5068
45°	5433	4602	4444
50°	5115	4108	3978
55°	4608	3448	3520
60°	4044	2874	2969
65°	3115	2267	2291
70°	2784	1810	1602
75°	2306	1403	1174
80°	1867	940	796
85°	1292	418	311



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	199.9	3.4	2.3
10°-20°	559.4	9.6	6.4
20°-30°	817.8	14.0	9.4
30°-40°	945.7	16.2	10.9
40°-50°	895.9	15.3	10.3
50°-60°	714.4	12.2	8.2
60°-70°	444.1	7.6	5.1
70°-80°	216.5	3.7	2.5
80°-90°	55.8	1.0	0.6
90°-100°	35.8	0.6	0.4
100°-110°	113.9	1.9	1.3
110°-120°	167.7	2.9	1.9
120°-130°	186.0	3.2	2.1
130°-140°	176.5	3.0	2.0
140°-150°	144.1	2.5	1.7
150°-160°	100.0	1.7	1.1
160°-170°	58.9	1.0	0.7
170°-180°	20.0	0.3	0.2
0°-30°	1577.2	26.9	18.1
0°-40°	2522.8	43.1	29.0
0°-60°	4133.2	70.6	47.5
0°-90°	4849.6	82.9	55.7
90°-120°	317.5	5.4	3.6
90°-150°	824.1	14.1	9.5
90°-180°	1003.0	17.1	11.5
0°-180°	5852.6	100.0	67.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2093	2104	2118	2114	2154	196
15°	2014	1956	1975	1952	2028	558
25°	1743	1752	1760	1798	1798	804
35°	1464	1486	1496	1551	1600	919
45°	1146	1146	1162	1155	1168	890
55°	807	808	770	797	828	723
65°	418	430	425	450	460	439
75°	205	211	204	191	188	223
85°	53	47	42	40	36	59
90°	11	4	2	1	1	19
95°	63	41	22	13	10	57
105°	130	136	113	89	70	134
115°	164	192	190	160	130	158
125°	178	210	232	210	184	159
135°	204	220	248	238	225	155
145°	208	232	241	241	228	130
155°	206	220	222	211	210	97
165°	213	208	198	205	202	60
175°	214	201	218	192	181	21
180°	232	232	232	232	232	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2070.8	2070.8	2070.8	2070.8	2070.8
5°	2093.4	2103.8	2117.6	2114.0	2154.1
10°	2004.8	2053.7	2069.3	2104.9	2145.4
15°	2014.5	1956.1	1974.9	1951.6	2028.1
20°	1866.2	1903.1	1896.7	1906.8	1882.5
25°	1743.0	1752.1	1760.0	1797.8	1797.8
30°	1615.8	1642.8	1631.7	1681.2	1710.6
35°	1463.6	1485.8	1495.6	1550.9	1600.2
40°	1328.9	1323.2	1332.6	1400.2	1386.5
45°	1146.1	1146.5	1161.9	1154.6	1167.6
50°	991.4	969.7	981.0	977.9	994.4
55°	807.4	807.5	770.1	796.9	827.9
60°	628.0	621.6	592.4	626.7	649.4
65°	417.9	430.4	424.8	450.2	459.5
70°	311.8	310.0	302.6	302.7	289.7
75°	205.3	211.0	204.4	191.0	187.6
80°	122.0	116.5	115.8	113.9	109.5
85°	53.2	47.4	41.7	39.8	35.5
90°	11.0	3.6	1.5	0.9	0.9
95°	62.8	40.9	22.2	13.2	9.9
100°	102.7	99.4	71.4	51.5	31.4
105°	130.2	136.0	112.6	89.0	69.8
110°	144.5	162.0	151.4	125.4	100.6
115°	163.5	192.1	189.6	160.0	129.9
120°	164.5	210.4	216.0	183.6	154.6
125°	177.9	210.4	231.8	210.4	183.8
130°	191.4	213.8	245.2	224.6	211.3
135°	204.2	220.0	248.5	238.3	225.0
140°	203.4	234.8	236.4	235.5	221.6
145°	208.0	231.5	241.4	241.2	228.5
150°	210.0	222.3	235.1	216.9	211.1
155°	206.5	220.5	222.5	211.1	209.8
160°	211.7	215.7	201.6	218.8	202.6
165°	212.7	208.4	198.4	204.8	202.3
170°	214.7	209.3	207.3	206.8	226.5
175°	213.6	200.9	217.8	191.7	180.7
180°	231.7	231.7	231.7	231.7	231.7

(END OF REPORT)