

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: CTL58830

Luminaire Tested: **NB-SW-1T8-DL6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58830  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-1T8-DL6  
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**

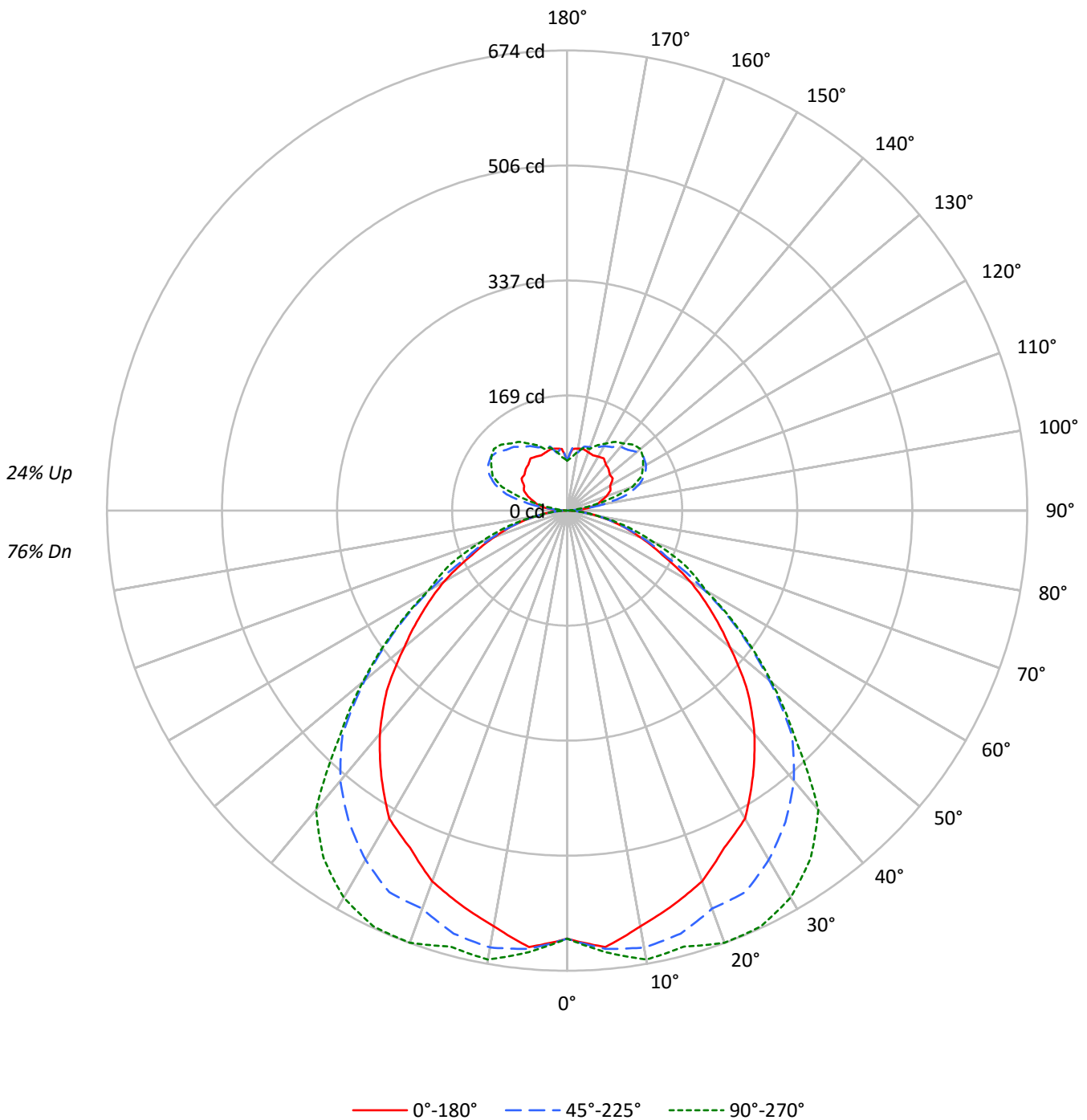
Lumens per Lamp: 2900 (1 lamp)  
Luminaire Lumens: 2319.7 lumens  
Efficiency: 80.0%  
Efficacy: 59.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.49 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

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	91	91	91	91	86	86	86	86	78	78	78		71	71	71		64	64	64	61
1	83	80	77	74	79	76	73	71	69	67	65		63	61	60		57	56	55	52
2	76	70	65	61	72	67	62	59	61	57	54		55	53	50		50	48	46	44
3	69	62	56	51	66	59	54	49	54	50	46		49	46	43		45	42	40	37
4	64	55	48	43	60	53	47	42	48	43	39		44	40	37		40	37	34	32
5	59	49	42	37	56	47	41	36	43	38	34		40	35	32		36	33	30	28
6	54	44	37	33	51	42	36	32	39	34	30		36	32	28		33	29	27	25
7	50	40	33	29	48	38	32	28	35	30	27		33	28	25		30	26	24	22
8	47	36	30	26	44	35	29	25	32	27	24		30	26	22		28	24	21	19
9	43	33	27	23	41	32	26	22	30	25	21		28	23	20		26	22	19	18
10	41	31	25	21	39	30	24	20	27	23	19		26	21	18		24	20	17	16

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

	0°	45°	90°
0°	2250	2250	2250
5°	2300	2268	2275
10°	2229	2261	2303
15°	2188	2223	2262
20°	2159	2159	2304
25°	2098	2170	2315
30°	2086	2119	2290
35°	1994	2054	2226
40°	1903	1976	2114
45°	1789	1862	1818
50°	1621	1635	1581
55°	1487	1393	1340
60°	1354	1132	1084
65°	1157	873	964
70°	1022	712	747
75°	885	543	572
80°	679	368	343
85°	540	174	145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	61.4	2.6	2.1
10°-20°	178.4	7.7	6.2
20°-30°	281.9	12.2	9.7
30°-40°	345.0	14.9	11.9
40°-50°	340.4	14.7	11.7
50°-60°	266.4	11.5	9.2
60°-70°	172.1	7.4	5.9
70°-80°	87.6	3.8	3.0
80°-90°	22.4	1.0	0.8
90°-100°	21.8	0.9	0.8
100°-110°	79.5	3.4	2.7
110°-120°	109.8	4.7	3.8
120°-130°	108.6	4.7	3.7
130°-140°	92.6	4.0	3.2
140°-150°	69.7	3.0	2.4
150°-160°	47.1	2.0	1.6
160°-170°	26.8	1.2	0.9
170°-180°	8.3	0.4	0.3
0°-30°	521.7	22.5	18.0
0°-40°	866.7	37.4	29.9
0°-60°	1473.5	63.5	50.8
0°-90°	1755.5	75.7	60.5
90°-120°	211.2	9.1	7.3
90°-150°	482.0	20.8	16.6
90°-180°	564.0	24.3	19.4
0°-180°	2319.7	100.0	80.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	642	633	644	662	649	60
15°	598	596	642	639	661	169
25°	545	574	617	648	672	253
35°	474	505	557	600	622	297
45°	374	415	465	472	473	287
55°	258	287	308	304	312	232
65°	154	168	162	184	191	156
75°	78	78	78	86	90	83
85°	22	19	17	15	16	23
90°	4	2	1	1	0	7
95°	24	26	13	9	7	23
105°	50	81	92	78	63	53
115°	70	101	126	128	120	68
125°	82	101	137	140	136	71
135°	86	102	126	140	137	66
145°	93	100	114	123	123	57
155°	89	98	102	110	106	42
165°	93	94	97	96	95	26
175°	90	86	92	88	78	8
180°	73	73	73	73	73	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	627.1	627.1	627.1	627.1	627.1
5°	641.8	633.3	644.4	661.6	649.3
10°	618.2	637.3	649.8	647.2	667.8
15°	598.4	596.3	641.5	639.0	661.1
20°	577.7	589.9	620.5	658.4	673.6
25°	544.7	574.5	616.8	647.9	671.9
30°	520.9	550.5	590.7	636.9	654.6
35°	474.4	504.7	557.1	599.9	621.9
40°	426.6	460.8	516.7	545.9	572.4
45°	373.6	414.8	465.4	472.4	472.7
50°	311.2	351.5	386.6	392.3	391.1
55°	258.0	287.1	308.0	303.8	311.8
60°	208.2	234.7	231.1	231.8	234.7
65°	153.8	168.5	161.9	183.5	191.3
70°	113.5	117.3	117.9	132.4	133.7
75°	78.1	78.1	78.4	86.2	90.5
80°	44.0	45.9	44.9	46.4	46.7
85°	22.1	19.2	17.2	14.9	16.4
90°	3.7	1.6	0.7	0.7	0.5
95°	23.8	25.5	13.3	9.3	6.8
100°	41.9	61.8	54.9	37.8	25.8
105°	49.8	81.4	91.7	78.2	63.3
110°	61.0	94.5	112.4	113.0	101.4
115°	70.0	100.7	126.0	127.6	120.4
120°	72.7	101.4	133.4	136.8	128.1
125°	81.7	100.7	136.8	139.8	135.8
130°	81.6	102.3	133.5	146.1	140.3
135°	85.8	101.7	125.7	140.5	136.6
140°	88.2	96.6	121.8	133.1	128.2
145°	93.3	100.0	113.5	123.4	122.9
150°	91.2	97.0	109.0	115.4	113.3
155°	89.3	97.5	102.2	110.0	105.7
160°	90.8	91.8	98.8	102.4	96.0
165°	93.1	93.5	97.0	95.7	95.4
170°	92.2	89.7	85.4	95.2	87.4
175°	90.5	86.3	92.4	88.4	78.2
180°	72.9	72.9	72.9	72.9	72.9

(END OF REPORT)