

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: CTL58822

Luminaire Tested: **NB-SW-1T5-DL6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58822  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-1T5-DL6  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT  
  
Light Source: 54 WATT T5 LAMP  
FP54T5/835HO. LUMEN RATING = 5000 LMS.  
Ballast/Driver: -

**Summary**

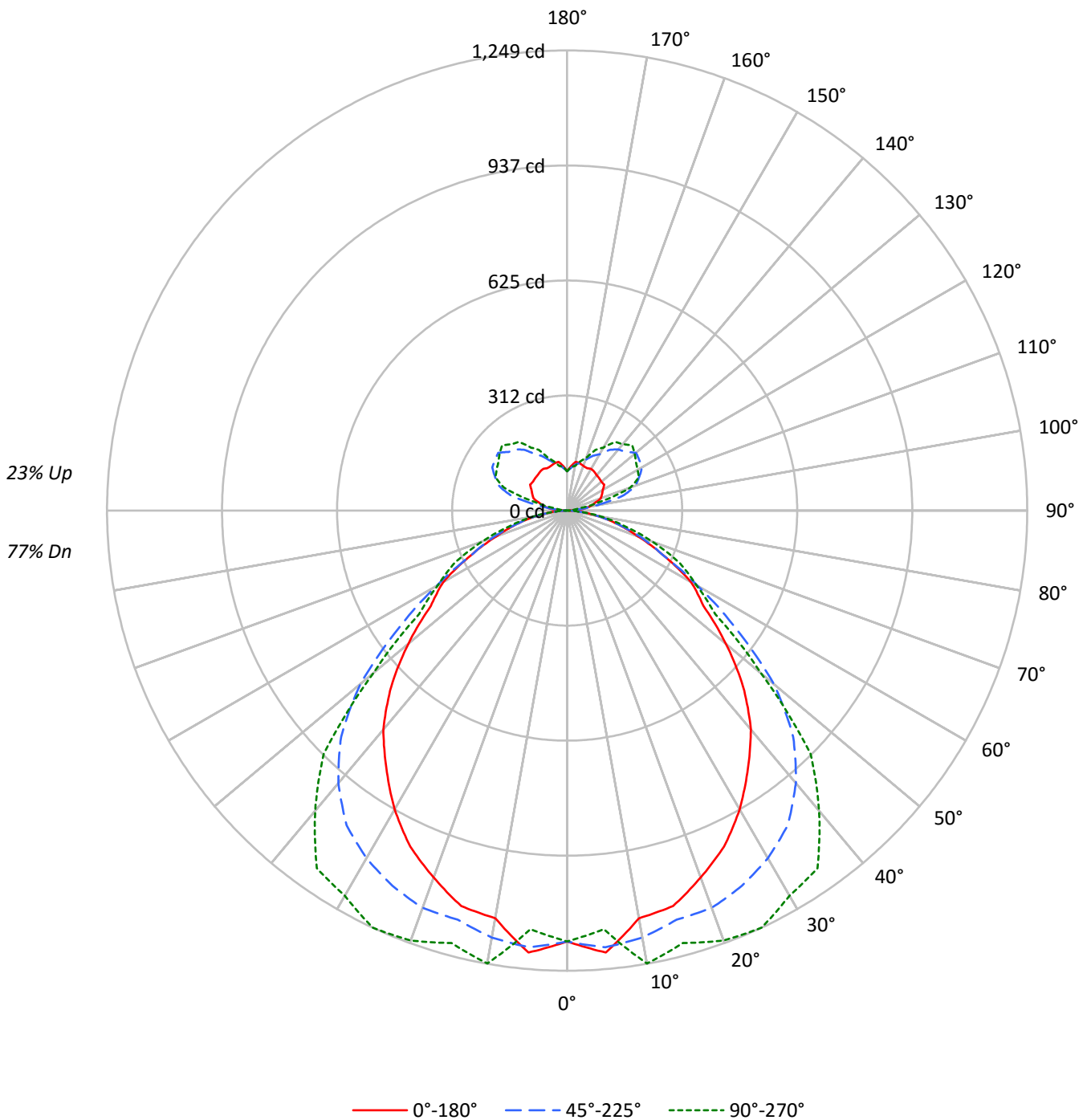
Lumens per Lamp: 5000 (1 lamp)  
Luminaire Lumens: 4160.3 lumens  
Efficiency: 83.2%  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.5 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 59  
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	95	95	95	95	90	90	90	90	82	82	82		74	74	74		68	68	68	64
1	87	83	80	77	83	80	77	74	73	70	68		66	65	63		60	59	58	55
2	79	73	68	64	76	70	65	61	64	60	57		59	56	53		54	51	49	47
3	73	65	58	53	69	62	56	52	57	52	48		52	48	45		48	45	42	40
4	67	57	51	45	63	55	49	44	51	46	42		47	42	39		43	39	37	34
5	61	51	44	39	58	49	43	38	46	40	36		42	38	34		39	35	32	30
6	57	46	39	34	54	44	38	33	41	36	32		38	33	30		35	31	28	26
7	52	42	35	30	50	40	34	29	37	32	28		35	30	27		32	28	25	23
8	49	38	31	27	46	37	31	26	34	29	25		32	27	24		29	25	23	21
9	45	35	28	24	43	34	28	24	31	26	22		29	25	21		27	23	20	19
10	43	32	26	22	41	31	25	21	29	24	20		27	23	19		25	21	18	17

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

	0°	45°	90°
0°	4196	4196	4196
5°	4314	4187	3996
10°	4051	4093	4306
15°	4062	3983	4157
20°	3960	3991	4248
25°	3878	3953	4304
30°	3751	3908	4222
35°	3595	3847	4241
40°	3461	3693	3931
45°	3234	3472	3593
50°	2930	3099	2776
55°	2601	2530	2108
60°	2527	2008	1868
65°	2173	1543	1699
70°	1833	1296	1375
75°	1599	980	997
80°	1285	684	701
85°	841	313	262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	111.8	2.7	2.2
10°-20°	328.5	7.9	6.6
20°-30°	517.1	12.4	10.3
30°-40°	641.7	15.4	12.8
40°-50°	635.8	15.3	12.7
50°-60°	475.6	11.4	9.5
60°-70°	308.6	7.4	6.2
70°-80°	158.3	3.8	3.2
80°-90°	41.0	1.0	0.8
90°-100°	32.0	0.8	0.6
100°-110°	132.2	3.2	2.6
110°-120°	189.2	4.5	3.8
120°-130°	188.4	4.5	3.8
130°-140°	160.1	3.8	3.2
140°-150°	117.0	2.8	2.3
150°-160°	73.3	1.8	1.5
160°-170°	38.3	0.9	0.8
170°-180°	11.5	0.3	0.2
0°-30°	957.3	23.0	19.1
0°-40°	1599.0	38.4	32.0
0°-60°	2710.5	65.2	54.2
0°-90°	3218.3	77.4	64.4
90°-120°	353.4	8.5	7.1
90°-150°	818.9	19.7	16.4
90°-180°	942.0	22.6	18.8
0°-180°	4160.3	100.0	83.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1204	1160	1190	1152	1141	112
15°	1111	1125	1149	1194	1215	311
25°	1007	1043	1123	1189	1249	463
35°	855	937	1043	1127	1185	536
45°	676	765	868	902	934	519
55°	451	536	559	515	491	415
65°	289	308	286	324	337	289
75°	141	139	141	153	158	150
85°	34	33	31	28	30	39
90°	6	4	2	1	1	11
95°	37	37	20	14	11	34
105°	76	136	158	135	94	82
115°	104	173	216	220	214	103
125°	123	180	239	251	228	107
135°	124	160	225	253	250	95
145°	129	145	201	225	228	80
155°	127	137	164	179	181	59
165°	133	131	134	134	138	37
175°	121	120	116	116	119	12
180°	106	106	106	106	106	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.5	1169.5	1169.5	1169.5	1169.5
5°	1204.1	1159.7	1189.9	1152.1	1140.6
10°	1123.6	1137.8	1176.6	1198.1	1248.3
15°	1111.2	1125.1	1149.2	1194.5	1215.0
20°	1059.8	1090.6	1147.4	1205.7	1241.8
25°	1006.8	1043.2	1123.3	1188.9	1249.2
30°	936.7	996.0	1089.4	1180.3	1207.0
35°	855.1	937.4	1043.3	1127.4	1184.7
40°	776.0	855.0	965.8	1044.0	1064.2
45°	675.5	764.8	867.8	901.5	934.3
50°	562.4	646.7	732.6	714.8	686.5
55°	451.4	535.7	559.4	515.2	490.6
60°	388.6	432.8	409.8	395.6	404.4
65°	288.8	308.2	286.3	324.5	337.1
70°	203.5	210.2	214.5	241.1	246.1
75°	141.1	139.2	141.4	153.0	157.7
80°	83.3	83.3	83.4	87.9	95.4
85°	34.4	32.8	30.9	28.5	29.6
90°	5.9	3.6	1.8	1.1	1.1
95°	36.6	36.7	20.0	13.6	11.2
100°	62.3	96.4	77.4	51.2	30.5
105°	76.1	136.3	158.1	134.8	94.4
110°	97.2	159.4	197.1	207.4	183.0
115°	104.2	172.6	215.7	220.5	214.5
120°	111.6	177.4	234.6	234.0	220.9
125°	122.7	179.6	239.0	250.6	227.8
130°	121.3	177.5	244.0	258.2	239.3
135°	123.5	159.7	224.7	253.3	250.0
140°	124.8	153.4	216.4	246.1	234.9
145°	128.7	145.0	201.1	225.0	227.5
150°	130.6	142.0	176.4	197.2	197.4
155°	127.0	137.4	163.8	179.4	181.2
160°	128.8	132.3	146.2	154.1	152.6
165°	132.9	130.8	133.7	134.2	138.1
170°	134.4	128.5	126.6	126.4	122.9
175°	121.0	120.0	115.8	115.5	119.0
180°	106.4	106.4	106.4	106.4	106.4

(END OF REPORT)