

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: ITL58757

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL58757
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5
Description: NAVIGATOR II SUSPENDED LUMINAIRE
EXTRUDED METAL HOUSING WITH UNFINISHED METAL END PLATES
FORMED WHITE PAINTED METAL REFLECTORS, ONE SEMI-SPECULAR METAL
INSERT ON EACH SIDE, FABRICATED WHITE PAINTED METAL 18-CELL
LOUVER, OPEN TOP.
Light Source: ONE 54-WATT T-5 SYLVANIA FP54/835/HO LINEAR FLUORESCENT.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

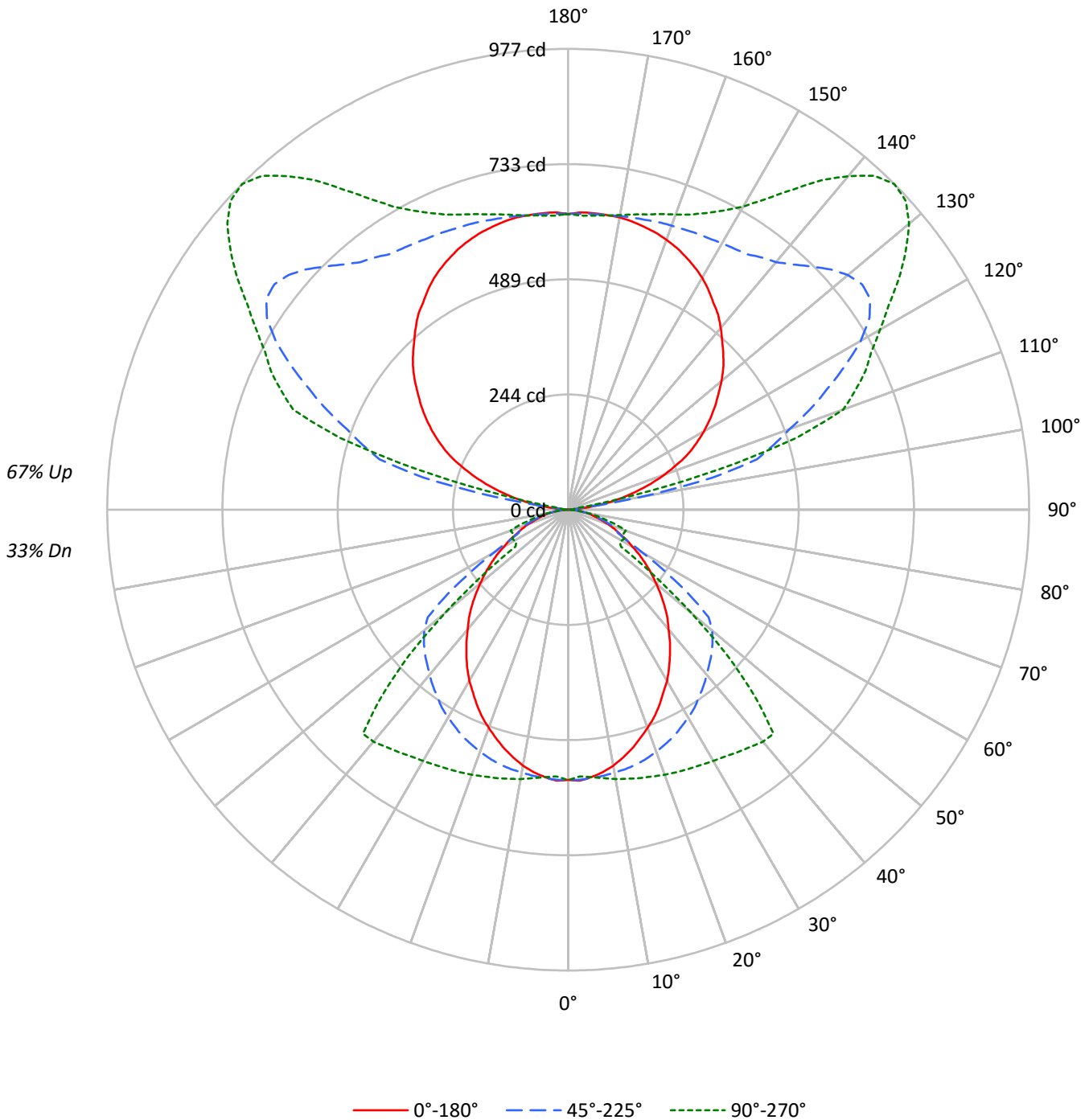
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4578.5 lumens
Efficiency: 91.6%
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.69 / 1.48
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 60.5
Input Voltage (V): NR
Input Current (A_{in}): 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	94	94	94	94	85	85	85	85	68	68	68	52	52	52	37	37	37	31
1	86	83	79	76	78	75	72	69	60	58	56	46	45	44	33	33	32	26
2	79	72	67	62	71	65	61	57	53	49	47	41	39	37	30	28	27	22
3	72	64	57	52	65	58	52	48	46	43	39	36	33	31	26	25	23	19
4	66	56	49	44	59	51	45	41	41	37	34	32	29	27	24	22	20	16
5	60	50	43	38	54	46	39	35	37	32	29	29	26	23	21	19	18	14
6	56	45	38	33	50	41	35	30	33	29	25	26	23	20	19	17	16	13
7	51	40	33	29	46	37	31	26	30	25	22	24	20	18	18	15	14	11
8	47	37	30	25	43	33	27	23	27	23	20	22	18	16	16	14	12	10
9	44	33	27	22	40	30	25	21	25	20	17	20	17	14	15	13	11	9
10	41	30	24	20	37	28	22	18	23	19	16	18	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2534	2534	2534
5°	2526	2534	2526
10°	2474	2541	2604
15°	2399	2559	2696
20°	2315	2569	2814
25°	2230	2586	2957
30°	2139	2599	3140
35°	2030	2613	3384
40°	1911	2638	3706
45°	1807	2689	3496
50°	1672	2738	2332
55°	1542	2405	1056
60°	1388	1601	1158
65°	1256	1214	1339
70°	1164	1267	1681
75°	1042	1145	1401
80°	968	1044	1146
85°	812	812	761



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	54.3	1.2	1.1
10°-20°	157.5	3.4	3.1
20°-30°	244.9	5.3	4.9
30°-40°	308.9	6.7	6.2
40°-50°	327.0	7.1	6.5
50°-60°	212.9	4.7	4.3
60°-70°	127.4	2.8	2.5
70°-80°	75.6	1.7	1.5
80°-90°	18.8	0.4	0.4
90°-100°	34.6	0.8	0.7
100°-110°	336.1	7.3	6.7
110°-120°	547.5	12.0	11.0
120°-130°	609.4	13.3	12.2
130°-140°	560.0	12.2	11.2
140°-150°	425.1	9.3	8.5
150°-160°	298.5	6.5	6.0
160°-170°	180.1	3.9	3.6
170°-180°	60.0	1.3	1.2
0°-30°	456.7	10.0	9.1
0°-40°	765.5	16.7	15.3
0°-60°	1305.4	28.5	26.1
0°-90°	1527.3	33.4	30.5
90°-120°	918.2	20.1	18.4
90°-150°	2512.7	54.9	50.3
90°-180°	3051.0	66.6	61.0
0°-180°	4578.5	100.0	91.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	569	571	571	570	569	54
15°	524	536	559	579	589	147
25°	457	482	530	579	606	210
35°	376	412	484	573	627	235
45°	289	334	430	560	559	222
55°	200	241	312	199	137	179
65°	120	138	116	123	128	121
75°	61	65	67	78	82	65
85°	16	17	16	16	15	18
90°	0	0	0	0	0	1
95°	23	30	9	9	9	32
105°	150	306	414	376	333	158
115°	281	461	606	661	695	275
125°	379	489	781	854	856	339
135°	465	530	729	935	977	359
145°	536	573	661	774	828	336
155°	591	607	646	680	694	273
165°	621	623	636	645	648	176
175°	631	628	629	626	626	60
180°	627	627	627	627	627	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573	573	573	573	573
2.5°	575	576	573	569	566
5°	569	571	571	570	569
7.5°	561	564	569	572	574
10°	551	556	566	574	580
12.5°	538	546	563	577	584
15°	524	536	559	579	589
17.5°	508	524	553	579	593
20°	492	511	546	580	598
22.5°	476	498	538	580	602
25°	457	482	530	579	606
27.5°	437	466	519	578	610
30°	419	449	509	577	615
32.5°	398	431	498	574	620
35°	376	412	484	573	627
37.5°	354	392	471	571	634
40°	331	372	457	571	642
42.5°	311	352	443	569	644
45°	289	334	430	560	559
47.5°	266	312	415	482	458
50°	243	288	398	383	339
52.5°	222	265	375	291	228
55°	200	241	312	199	137
57.5°	180	217	242	133	130
60°	157	192	181	129	131
62.5°	140	169	136	128	134
65°	120	138	116	123	128
67.5°	106	115	109	117	128
70°	90	97	98	111	130
72.5°	74	79	82	99	108
75°	61	65	67	78	82
77.5°	49	52	54	61	64
80°	38	40	41	44	45
82.5°	27	28	27	29	28
85°	16	17	16	16	15
87.5°	6	6	4	3	2
90°	0	0	0	0	0
92.5°	3	4	7	8	9
95°	23	30	9	9	9
97.5°	50	132	20	13	13
100°	84	196	155	45	21
102.5°	117	250	314	199	144
105°	150	306	414	376	333
107.5°	184	363	456	527	508
110°	216	410	499	588	620



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	249	442	554	626	658
115°	281	461	606	661	695
117.5°	307	468	662	702	724
120°	332	474	716	749	763
122.5°	356	481	757	799	805
125°	379	489	781	854	856
127.5°	401	497	785	900	902
130°	424	507	774	931	943
132.5°	446	518	754	942	970
135°	465	530	729	935	977
137.5°	483	541	705	906	960
140°	503	552	685	864	923
142.5°	522	564	674	818	880
145°	536	573	661	774	828
147.5°	553	584	656	742	781
150°	568	592	652	715	742
152.5°	580	600	648	695	715
155°	591	607	646	680	694
157.5°	601	612	643	668	677
160°	609	616	641	660	666
162.5°	616	620	639	653	657
165°	621	623	636	645	648
167.5°	626	625	634	639	641
170°	629	627	632	632	634
172.5°	630	627	630	628	629
175°	631	628	629	626	626
177.5°	631	628	628	625	624
180°	627	627	627	627	627

(END OF REPORT)