

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: ITL58760

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL58760
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T8
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WHITE PAINTED METAL REFLECTORS, ONE SEMI-SPECULAR METAL INSERT
ON EACH SIDE, FABRICATED WHITE PAINTED METAL 18-CELL LOUVER,
OPEN TOP.
Light Source: ONE 32-WATT T-8 FO32/835 LINEAR FLUORESCENT.
Ballast/Driver: UNIVERSAL B232IUNVHP-B

Summary

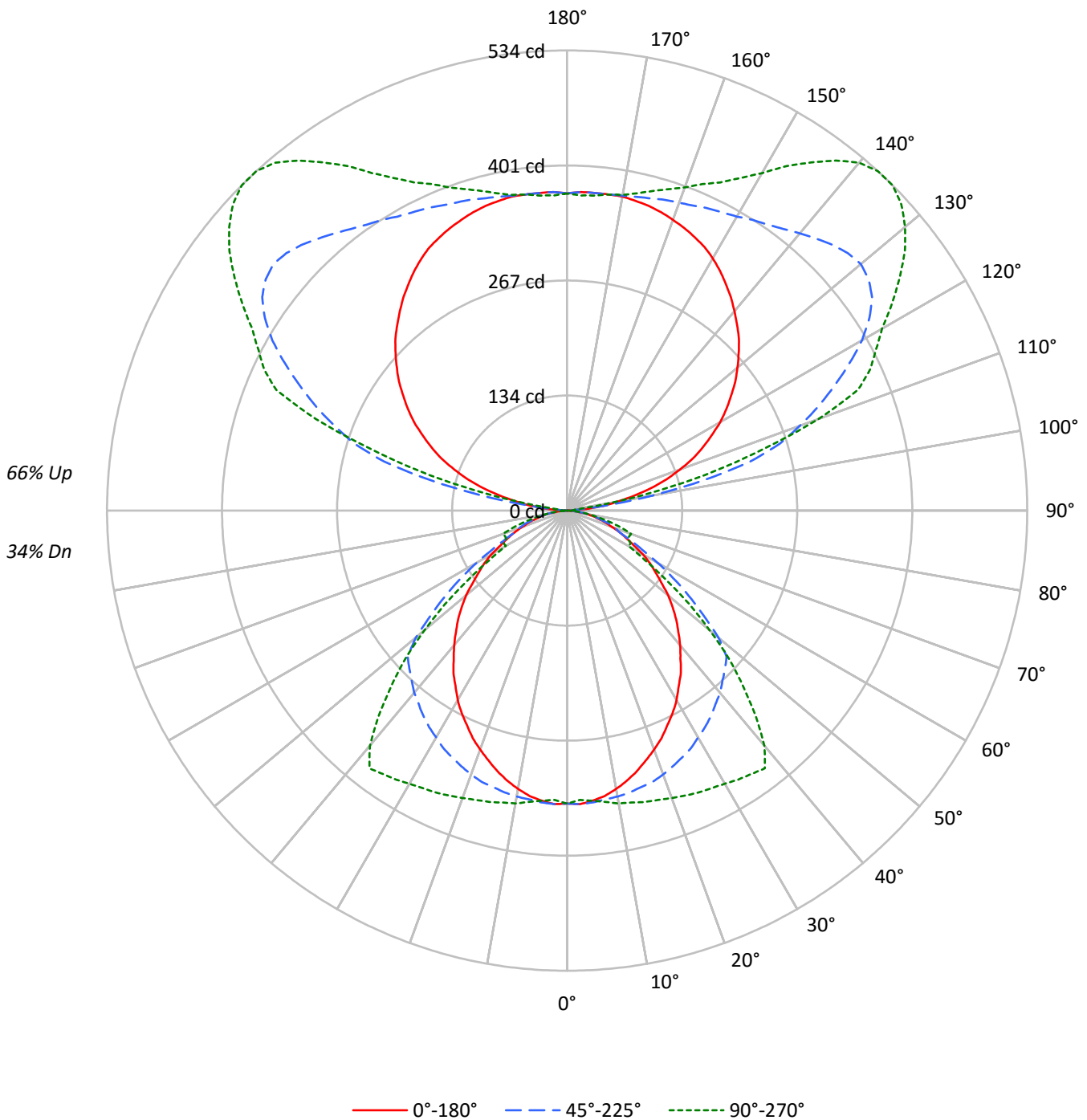
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2703.2 lumens
Efficiency: 91.6%
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.62 / 1.48
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.9
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	95	95	95	95	85	85	85	85	68	68	68	52	52	52	38	38	38	31
1	87	83	79	76	78	75	72	69	60	58	56	46	45	44	34	33	32	27
2	79	72	67	63	71	66	61	57	53	50	47	41	39	37	30	29	28	23
3	72	64	57	52	65	58	52	48	47	43	40	36	34	31	27	25	24	19
4	66	56	49	44	59	51	45	41	41	37	34	32	29	27	24	22	20	17
5	60	50	43	38	54	46	39	35	37	33	29	29	26	23	22	20	18	15
6	56	45	38	33	50	41	35	30	33	29	25	26	23	20	20	17	16	13
7	51	40	33	28	46	37	31	26	30	26	22	24	20	18	18	16	14	11
8	48	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	21	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°	1503	1503	1503
5°	1500	1509	1500
10°	1473	1513	1549
15°	1433	1520	1602
20°	1388	1534	1670
25°	1342	1542	1761
30°	1297	1552	1869
35°	1242	1571	2013
40°	1178	1593	2055
45°	1119	1620	1807
50°	1052	1575	1486
55°	964	1326	1079
60°	893	1070	725
65°	795	827	816
70°	711	763	1021
75°	649	700	871
80°	586	611	688
85°	457	457	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.3	1.2	1.1
10°-20°	93.8	3.5	3.2
20°-30°	146.3	5.4	5.0
30°-40°	185.1	6.8	6.3
40°-50°	188.8	7.0	6.4
50°-60°	136.8	5.1	4.6
60°-70°	80.6	3.0	2.7
70°-80°	46.3	1.7	1.6
80°-90°	11.0	0.4	0.4
90°-100°	30.6	1.1	1.0
100°-110°	191.7	7.1	6.5
110°-120°	312.8	11.6	10.6
120°-130°	346.5	12.8	11.7
130°-140°	324.6	12.0	11.0
140°-150°	255.7	9.5	8.7
150°-160°	178.9	6.6	6.1
160°-170°	106.3	3.9	3.6
170°-180°	35.3	1.3	1.2
0°-30°	272.4	10.1	9.2
0°-40°	457.5	16.9	15.5
0°-60°	783.1	29.0	26.5
0°-90°	921.0	34.1	31.2
90°-120°	535.1	19.8	18.1
90°-150°	1461.8	54.1	49.6
90°-180°	1782.0	65.9	60.4
0°-180°	2703.2	100.0	91.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	340	340	340	340	340	
5°	338	339	340	339	338	32
15°	313	319	332	344	350	88
25°	275	289	316	345	361	127
35°	230	250	291	342	373	143
45°	179	203	259	286	289	138
55°	125	150	172	154	140	113
65°	76	86	79	77	78	76
75°	38	41	41	48	51	41
85°	9	10	9	9	9	10
90°	0	0	0	0	0	1
95°	22	42	8	9	8	26
105°	101	187	220	196	178	105
115°	174	274	342	374	388	172
125°	232	301	432	470	471	208
135°	282	325	436	518	534	217
145°	321	345	405	469	493	201
155°	350	360	387	410	420	162
165°	366	367	375	381	384	103
175°	370	369	370	368	367	35
180°	368	368	368	368	368	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	340	340	340	340	340
2.5°	341	342	341	338	336
5°	338	339	340	339	338
7.5°	334	335	338	340	341
10°	328	330	337	342	345
12.5°	321	326	335	343	347
15°	313	319	332	344	350
17.5°	304	313	330	344	352
20°	295	306	326	345	355
22.5°	286	298	321	345	358
25°	275	289	316	345	361
27.5°	265	280	311	344	363
30°	254	270	304	343	366
32.5°	241	260	298	342	370
35°	230	250	291	342	373
37.5°	216	238	283	341	377
40°	204	226	276	340	356
42.5°	191	215	267	319	324
45°	179	203	259	286	289
47.5°	166	191	251	256	255
50°	153	179	229	220	216
52.5°	138	164	199	187	179
55°	125	150	172	154	140
57.5°	114	137	146	124	107
60°	101	121	121	94	82
62.5°	87	104	98	78	83
65°	76	86	79	77	78
67.5°	66	70	66	71	78
70°	55	59	59	68	79
72.5°	47	50	51	61	66
75°	38	41	41	48	51
77.5°	31	32	32	36	37
80°	23	24	24	26	27
82.5°	15	17	16	17	17
85°	9	10	9	9	9
87.5°	3	3	2	2	1
90°	0	0	0	0	0
92.5°	6	5	6	8	8
95°	22	42	8	9	8
97.5°	42	88	44	19	10
100°	59	123	100	68	53
102.5°	79	154	162	128	112
105°	101	187	220	196	178
107.5°	121	216	259	261	241
110°	139	243	287	320	310



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	158	261	315	353	365
115°	174	274	342	374	388
117.5°	189	282	369	395	404
120°	205	290	395	419	422
122.5°	219	296	416	445	447
125°	232	301	432	470	471
127.5°	246	308	441	491	494
130°	258	313	445	507	512
132.5°	270	319	442	516	526
135°	282	325	436	518	534
137.5°	292	330	428	513	534
140°	302	335	420	502	527
142.5°	312	341	412	486	512
145°	321	345	405	469	493
147.5°	330	349	400	452	474
150°	338	353	394	435	452
152.5°	345	357	390	422	435
155°	350	360	387	410	420
157.5°	355	362	383	401	410
160°	359	364	380	393	399
162.5°	363	366	378	387	391
165°	366	367	375	381	384
167.5°	368	368	373	376	377
170°	370	369	371	372	372
172.5°	370	369	370	369	370
175°	370	369	370	368	367
177.5°	370	369	370	367	366
180°	368	368	368	368	368

(END OF REPORT)