

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: ITL58761

Luminaire Tested: **NB-SW-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL58761
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T8
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: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B232IUNVHP-B

Summary

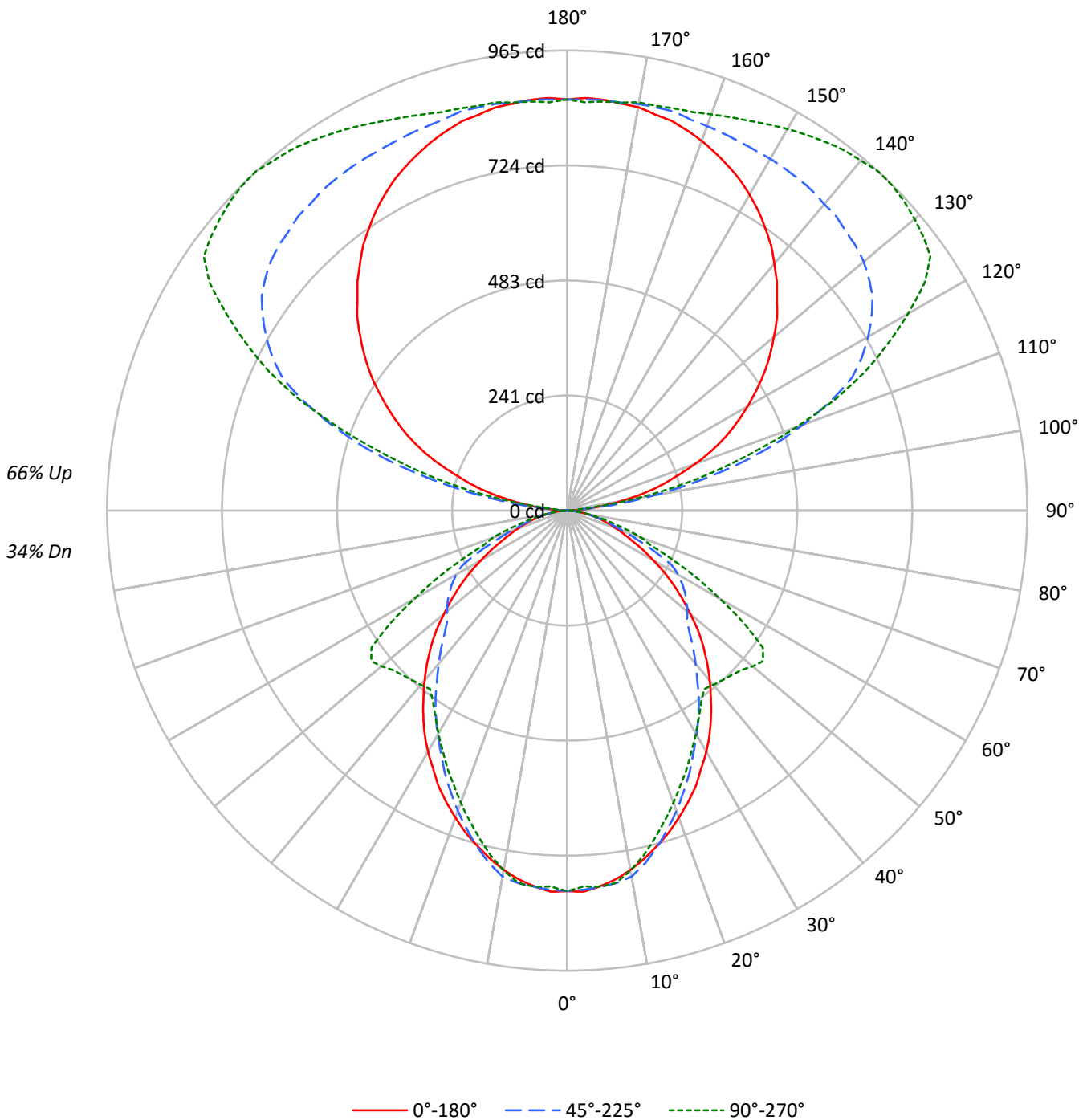
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5325.6 lumens
Efficiency: 90.3%
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.03 / 1.15
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 56.5
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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CATALOG NUMBER: NB-SW-2T8

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	93	93	93	93	84	84	84	84	67	67	67	51	51	51	37	37	37	30
1	85	81	78	75	77	74	71	68	59	57	55	45	44	43	33	32	32	26
2	78	71	66	61	70	64	60	56	52	49	46	40	38	36	29	28	27	22
3	71	63	56	51	64	57	51	47	46	42	39	35	33	31	26	24	23	19
4	65	55	49	43	58	50	44	40	41	36	33	32	29	26	23	21	20	16
5	59	49	42	37	53	45	39	34	36	32	28	28	25	23	21	19	17	14
6	55	44	37	32	49	40	34	30	33	28	25	26	22	20	19	17	15	12
7	50	40	33	28	45	36	30	26	30	25	22	23	20	18	17	15	14	11
8	47	36	29	25	42	33	27	23	27	22	19	21	18	16	16	14	12	10
9	43	33	26	22	39	30	24	20	25	20	17	20	16	14	15	13	11	9
10	41	30	24	20	37	27	22	18	23	18	15	18	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3529	3529	3529
5°	3511	3515	3515
10°	3435	3498	3439
15°	3333	3342	3255
20°	3223	3153	3068
25°	3113	2961	2903
30°	2982	2772	2757
35°	2839	2596	2645
40°	2684	2419	2753
45°	2526	2270	3052
50°	2318	2263	3494
55°	2105	2328	3862
60°	1848	2379	3272
65°	1580	2113	2553
70°	1422	1603	2133
75°	1281	1333	1606
80°	1095	1120	1197
85°	862	761	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.9	1.4	1.3
10°-20°	204.0	3.8	3.5
20°-30°	282.5	5.3	4.8
30°-40°	310.2	5.8	5.3
40°-50°	314.2	5.9	5.3
50°-60°	300.9	5.6	5.1
60°-70°	195.7	3.7	3.3
70°-80°	88.5	1.7	1.5
80°-90°	19.6	0.4	0.3
90°-100°	64.2	1.2	1.1
100°-110°	344.8	6.5	5.8
110°-120°	583.1	10.9	9.9
120°-130°	666.8	12.5	11.3
130°-140°	627.1	11.8	10.6
140°-150°	527.6	9.9	8.9
150°-160°	395.0	7.4	6.7
160°-170°	244.1	4.6	4.1
170°-180°	82.4	1.5	1.4
0°-30°	561.4	10.5	9.5
0°-40°	871.6	16.4	14.8
0°-60°	1486.8	27.9	25.2
0°-90°	1790.6	33.6	30.3
90°-120°	992.0	18.6	16.8
90°-150°	2813.5	52.8	47.7
90°-180°	3535.0	66.4	59.9
0°-180°	5325.6	100.0	90.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	791	789	792	793	792	75
15°	728	738	730	717	711	205
25°	638	641	607	596	595	293
35°	526	514	481	478	490	329
45°	404	381	363	432	488	311
55°	273	258	302	429	501	244
65°	151	154	202	229	244	153
75°	75	77	78	89	94	79
85°	17	18	15	16	14	19
90°	0	0	0	0	0	2
95°	39	74	34	13	13	48
105°	203	347	366	340	325	212
115°	367	507	659	688	689	361
125°	505	610	782	889	930	451
135°	622	691	827	933	964	481
145°	724	762	848	920	944	453
155°	798	821	854	890	902	368
165°	846	856	866	871	873	239
175°	865	867	864	860	861	82
180°	862	862	862	862	862	



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 CATALOG NUMBER: NB-SW-2T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798	798	798	798	798
2.5°	800	797	796	792	789
5°	791	789	792	793	792
7.5°	780	778	788	790	787
10°	765	767	779	772	766
12.5°	748	753	757	747	741
15°	728	738	730	717	711
17.5°	708	719	700	687	681
20°	685	696	670	655	652
22.5°	662	668	638	623	622
25°	638	641	607	596	595
27.5°	609	610	573	564	566
30°	584	580	543	536	540
32.5°	556	546	512	506	514
35°	526	514	481	478	490
37.5°	495	478	448	452	472
40°	465	445	419	435	477
42.5°	435	413	391	433	482
45°	404	381	363	432	488
47.5°	372	350	341	430	495
50°	337	320	329	429	508
52.5°	305	290	316	431	518
55°	273	258	302	429	501
57.5°	241	230	286	400	439
60°	209	202	269	340	370
62.5°	180	178	247	283	307
65°	151	154	202	229	244
67.5°	129	131	160	180	189
70°	110	112	124	139	165
72.5°	91	94	99	118	126
75°	75	77	78	89	94
77.5°	58	60	60	66	68
80°	43	44	44	47	47
82.5°	30	30	29	30	28
85°	17	18	15	16	14
87.5°	5	6	3	3	2
90°	0	0	0	0	0
92.5°	8	11	9	12	12
95°	39	74	34	13	13
97.5°	75	142	110	79	64
100°	117	220	188	170	147
102.5°	160	285	274	254	238
105°	203	347	366	340	325
107.5°	241	392	450	432	414
110°	286	439	526	529	511



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	328	477	597	615	607
115°	367	507	659	688	689
117.5°	402	533	697	755	759
120°	437	559	729	821	825
122.5°	471	584	757	869	889
125°	505	610	782	889	930
127.5°	536	633	798	905	942
130°	566	655	812	919	951
132.5°	597	674	821	930	959
135°	622	691	827	933	964
137.5°	651	711	836	934	965
140°	676	727	839	929	958
142.5°	702	746	845	926	953
145°	724	762	848	920	944
147.5°	746	779	850	913	934
150°	765	794	852	906	924
152.5°	783	808	852	898	913
155°	798	821	854	890	902
157.5°	812	833	856	882	893
160°	825	841	858	876	884
162.5°	836	848	860	872	876
165°	846	856	866	871	873
167.5°	851	858	866	868	869
170°	859	864	866	868	869
172.5°	861	865	863	862	863
175°	865	867	864	860	861
177.5°	866	868	863	859	857
180°	862	862	862	862	862

(END OF REPORT)