

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: ITL58815

Luminaire Tested: **NB-SW-3T5-DUD-3 ALL LAMPS ON**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL58815  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T5-DUD-3 ALL LAMPS ON  
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, ONE U-SHAPED WHITE PAINTED METAL REFLECTOR  
AROUND EACH LAMP, TWO OUTBOARD REFLECTORS ARE OPEN ON BOTTOM,  
CENTER REFLECTOR IS OPEN ON TOP, FABRICATED WHITE PAINTED METAL  
18-CELL LOUVER.  
Light Source: THREE 54-WATT T-5 SYLVANIA FP54/835/HO LINEAR FLUORESCENTS.  
Ballast/Driver: TWO UNIVERSAL B254PUNV-D

**Summary**

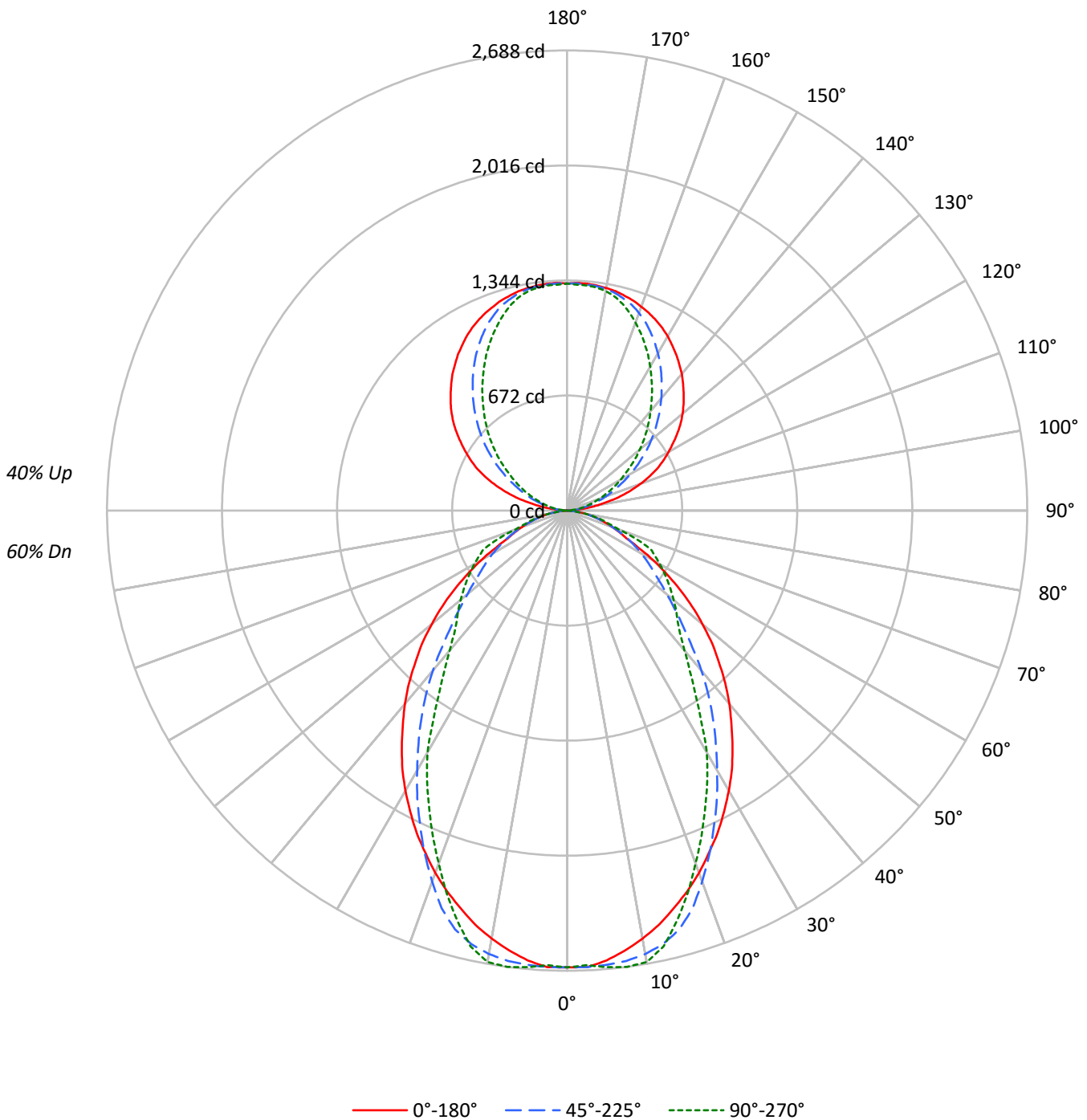
Lumens per Lamp: 5000 (3 lamps)  
Luminaire Lumens: 8264.9 lumens  
Efficiency: 55.1%  
Efficacy: 53.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 0.98 / 1.09  
Luminous Opening: Rectangular (W 0.34' x L: 3.59' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 155.9  
Input Voltage (V): NR  
Input Current (Ain): 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	50	30	10	0	
RCR																						
0	60	60	60	60	56	56	56	56	49	49	49	42	42	42	36	36	36	36	36	36	33	
1	55	53	51	49	52	50	48	47	44	42	41	38	37	36	32	32	31	31	31	31	29	
2	51	47	44	41	47	44	41	39	39	37	35	34	32	31	29	28	27	27	27	27	25	
3	47	42	38	35	44	39	36	33	35	32	30	30	28	27	26	25	23	23	23	23	21	
4	43	37	33	30	40	35	31	29	31	28	26	27	25	23	24	22	21	21	21	21	19	
5	40	34	29	26	37	32	28	25	28	25	23	25	22	20	22	20	18	18	18	18	17	
6	37	30	26	23	34	29	25	22	25	22	20	23	20	18	20	18	16	16	16	16	15	
7	34	28	23	20	32	26	22	20	23	20	18	21	18	16	18	16	15	15	15	15	13	
8	32	25	21	18	30	24	20	18	21	18	16	19	17	15	17	15	13	13	13	13	12	
9	30	23	19	16	28	22	18	16	20	17	15	18	15	13	16	14	12	12	12	12	11	
10	28	21	18	15	26	20	17	14	18	15	13	16	14	12	15	13	11	11	11	11	10	

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

	0°	45°	90°
0°	23605	23605	23605
5°	23428	23659	23775
10°	22810	23627	24050
15°	22028	23192	22715
20°	21203	21711	20647
25°	20295	19827	18636
30°	19298	17888	16673
35°	18188	16050	14084
40°	17024	14102	12323
45°	15678	11987	11398
50°	14204	10461	11176
55°	12386	9455	11060
60°	10298	8865	11059
65°	7997	8185	11326
70°	7269	7346	8252
75°	6495	6426	7247
80°	5604	5299	5452
85°	4365	3756	2944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	252.5	3.1	1.7
10°-20°	694.9	8.4	4.6
20°-30°	932.5	11.3	6.2
30°-40°	942.8	11.4	6.3
40°-50°	802.0	9.7	5.3
50°-60°	623.3	7.5	4.2
60°-70°	418.2	5.1	2.8
70°-80°	206.6	2.5	1.4
80°-90°	46.0	0.6	0.3
90°-100°	45.2	0.5	0.3
100°-110°	197.1	2.4	1.3
110°-120°	365.7	4.4	2.4
120°-130°	511.1	6.2	3.4
130°-140°	600.9	7.3	4.0
140°-150°	610.6	7.4	4.1
150°-160°	530.1	6.4	3.5
160°-170°	359.6	4.4	2.4
170°-180°	125.9	1.5	0.8
0°-30°	1879.9	22.7	12.5
0°-40°	2822.7	34.2	18.8
0°-60°	4248.0	51.4	28.3
0°-90°	4918.8	59.5	32.8
90°-120°	608.0	7.4	4.1
90°-150°	2330.6	28.2	15.5
90°-180°	3346.0	40.5	22.3
0°-180°	8264.9	100.0	55.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2638	2638	2664	2674	2677	249
15°	2405	2463	2532	2498	2480	677
25°	2079	2170	2031	1926	1909	955
35°	1684	1708	1486	1343	1304	1052
45°	1253	1201	958	889	911	968
55°	803	741	613	666	717	718
65°	382	367	391	470	541	399
75°	190	184	188	206	212	203
85°	43	42	37	34	29	49
90°	0	0	0	0	0	4
95°	66	45	40	9	3	77
105°	322	212	158	142	134	337
115°	580	431	326	292	277	570
125°	785	659	533	474	454	702
135°	963	877	749	679	656	744
145°	1112	1070	960	889	864	696
155°	1227	1211	1151	1097	1073	566
165°	1299	1293	1281	1259	1250	367
175°	1330	1324	1325	1319	1320	127
180°	1326	1326	1326	1326	1326	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2668	2668	2668	2668	2668
2.5°	2669	2662	2669	2662	2658
5°	2638	2638	2664	2674	2677
7.5°	2592	2606	2653	2679	2688
10°	2539	2565	2630	2667	2677
12.5°	2478	2519	2593	2616	2607
15°	2405	2463	2532	2498	2480
17.5°	2332	2400	2436	2361	2342
20°	2252	2333	2306	2217	2193
22.5°	2164	2255	2172	2071	2052
25°	2079	2170	2031	1926	1909
27.5°	1984	2075	1895	1787	1772
30°	1889	1962	1751	1648	1632
32.5°	1791	1835	1617	1505	1457
35°	1684	1708	1486	1343	1304
37.5°	1576	1574	1354	1195	1176
40°	1474	1446	1221	1077	1067
42.5°	1367	1323	1081	974	976
45°	1253	1201	958	889	911
47.5°	1149	1081	855	821	863
50°	1032	963	760	768	812
52.5°	921	853	680	719	763
55°	803	741	613	666	717
57.5°	688	632	557	615	670
60°	582	528	501	566	625
62.5°	470	441	444	515	581
65°	382	367	391	470	541
67.5°	330	312	337	424	446
70°	281	266	284	330	319
72.5°	234	225	234	251	254
75°	190	184	188	206	212
77.5°	149	144	145	157	156
80°	110	107	104	108	107
82.5°	76	74	70	68	65
85°	43	42	37	34	29
87.5°	12	11	6	6	4
90°	0	0	0	0	0
92.5°	16	17	3	2	2
95°	66	45	40	9	3
97.5°	117	79	62	61	58
100°	183	122	90	87	83
102.5°	249	166	120	111	106
105°	322	212	158	142	134
107.5°	389	266	197	172	164
110°	455	321	240	209	199



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	520	377	282	249	236
115°	580	431	326	292	277
117.5°	633	489	374	332	319
120°	683	543	426	374	359
122.5°	734	603	480	422	403
125°	785	659	533	474	454
127.5°	836	716	589	527	505
130°	880	771	642	577	554
132.5°	923	825	696	628	606
135°	963	877	749	679	656
137.5°	1002	930	802	731	707
140°	1042	979	856	785	758
142.5°	1076	1025	907	836	810
145°	1112	1070	960	889	864
147.5°	1143	1110	1011	943	917
150°	1175	1148	1060	996	970
152.5°	1203	1181	1107	1046	1024
155°	1227	1211	1151	1097	1073
157.5°	1249	1235	1193	1141	1123
160°	1267	1257	1228	1187	1168
162.5°	1286	1276	1259	1226	1212
165°	1299	1293	1281	1259	1250
167.5°	1312	1304	1301	1286	1281
170°	1320	1313	1314	1304	1302
172.5°	1326	1319	1322	1315	1314
175°	1330	1324	1325	1319	1320
177.5°	1331	1326	1328	1322	1321
180°	1326	1326	1326	1326	1326

(END OF REPORT)