

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: ITL58759

Luminaire Tested: **NB-SW-3T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL58759
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
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: THREE 54-WATT T-5 SYLVANIA FP54/835/HO LINEAR FLUORESCENTS.
Ballast/Driver: TWO UNIVERSAL B254PUNV-D

Summary

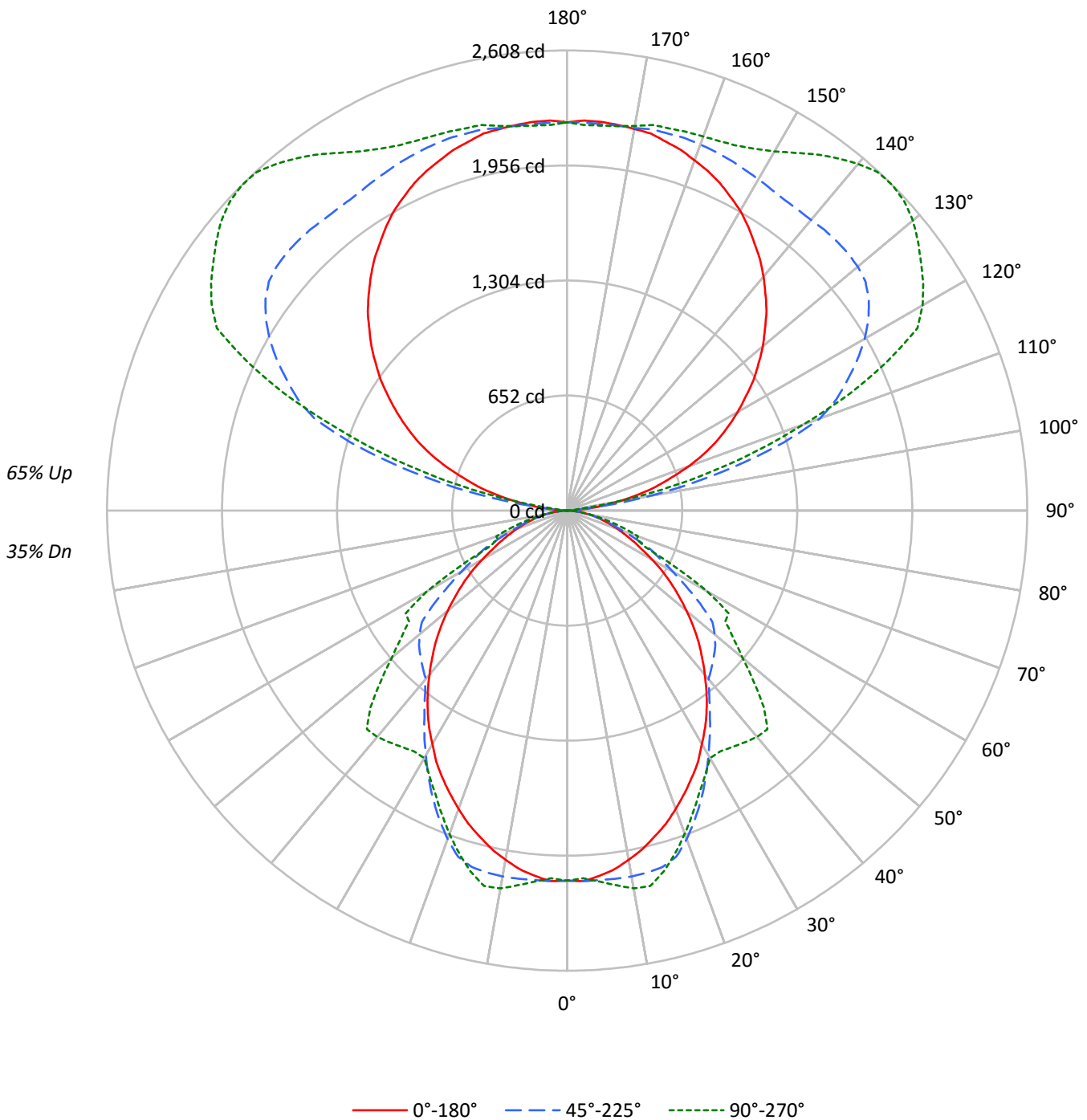
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 14355.9 lumens
Efficiency: 95.7%
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.16 / 1.26
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 177.3
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	99	99	99	99	90	90	90	90	72	72	72	56	56	56	41	41	41	34
1	91	87	83	80	82	79	76	73	63	61	60	49	48	47	37	36	35	29
2	83	76	70	66	75	69	64	60	56	52	50	44	41	39	32	31	30	25
3	76	67	60	55	68	61	55	50	49	45	42	39	36	33	29	27	25	21
4	69	59	52	46	62	54	48	43	44	39	36	34	31	29	26	24	22	18
5	63	53	45	40	57	48	42	37	39	34	31	31	28	25	23	21	19	16
6	58	47	40	34	53	43	37	32	35	30	27	28	24	22	21	19	17	14
7	54	43	35	30	49	39	32	28	32	27	24	25	22	19	19	17	15	12
8	50	39	31	26	45	35	29	25	29	24	21	23	20	17	18	15	14	11
9	46	35	28	23	42	32	26	22	27	22	19	21	18	15	16	14	12	10
10	43	32	25	21	39	29	24	20	24	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9272	9272	9272
5°	9228	9330	9370
10°	9025	9456	9761
15°	8757	9572	9686
20°	8465	9322	9176
25°	8152	8782	8631
30°	7796	8174	8266
35°	7438	7611	8826
40°	7007	7198	9663
45°	6585	7348	9855
50°	6074	7512	8922
55°	5543	7100	8434
60°	4935	6120	8118
65°	4342	5461	5064
70°	3930	4318	5520
75°	3536	3759	4510
80°	3157	3208	3488
85°	2537	2384	2131



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	200.3	1.4	1.3
10°-20°	575.0	4.0	3.8
20°-30°	815.7	5.7	5.4
30°-40°	929.2	6.5	6.2
40°-50°	966.6	6.7	6.4
50°-60°	802.7	5.6	5.4
60°-70°	498.9	3.5	3.3
70°-80°	247.6	1.7	1.7
80°-90°	58.0	0.4	0.4
90°-100°	138.0	1.0	0.9
100°-110°	919.8	6.4	6.1
110°-120°	1598.1	11.1	10.7
120°-130°	1759.5	12.3	11.7
130°-140°	1646.7	11.5	11.0
140°-150°	1356.8	9.5	9.0
150°-160°	1007.9	7.0	6.7
160°-170°	625.0	4.4	4.2
170°-180°	210.1	1.5	1.4
0°-30°	1591.0	11.1	10.6
0°-40°	2520.2	17.6	16.8
0°-60°	4289.5	29.9	28.6
0°-90°	5094.1	35.5	34.0
90°-120°	2655.8	18.5	17.7
90°-150°	7418.8	51.7	49.5
90°-180°	9262.0	64.5	61.7
0°-180°	14355.9	100.0	95.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2079	2086	2102	2107	2111	196
15°	1913	1977	2091	2121	2116	539
25°	1671	1801	1800	1768	1769	769
35°	1378	1492	1410	1511	1635	860
45°	1053	1101	1175	1484	1576	810
55°	719	740	921	1000	1094	643
65°	415	443	522	537	484	415
75°	207	216	220	251	264	221
85°	50	53	47	47	42	55
90°	0	0	0	0	0	5
95°	101	170	26	19	19	121
105°	518	908	1016	898	833	541
115°	938	1312	1754	2022	2003	922
125°	1289	1553	2087	2369	2448	1149
135°	1598	1766	2160	2516	2608	1231
145°	1850	1956	2149	2376	2464	1159
155°	2048	2101	2191	2256	2281	944
165°	2164	2177	2212	2235	2242	612
175°	2211	2209	2199	2189	2190	211
180°	2200	2200	2200	2200	2200	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097	2097	2097	2097	2097
2.5°	2102	2101	2102	2092	2086
5°	2079	2086	2102	2107	2111
7.5°	2051	2065	2104	2130	2142
10°	2010	2040	2106	2155	2174
12.5°	1966	2009	2101	2167	2179
15°	1913	1977	2091	2121	2116
17.5°	1861	1940	2057	2048	2036
20°	1799	1897	1981	1955	1950
22.5°	1736	1852	1893	1864	1859
25°	1671	1801	1800	1768	1769
27.5°	1606	1742	1702	1681	1692
30°	1527	1674	1601	1595	1619
32.5°	1456	1584	1506	1523	1617
35°	1378	1492	1410	1511	1635
37.5°	1297	1395	1323	1508	1655
40°	1214	1296	1247	1505	1674
42.5°	1132	1202	1211	1503	1680
45°	1053	1101	1175	1484	1576
47.5°	968	1011	1138	1374	1433
50°	883	918	1092	1237	1297
52.5°	799	824	1038	1107	1186
55°	719	740	921	1000	1094
57.5°	640	660	798	908	1085
60°	558	590	692	869	918
62.5°	478	522	593	709	682
65°	415	443	522	537	484
67.5°	355	374	425	401	427
70°	304	316	334	366	427
72.5°	255	266	273	326	344
75°	207	216	220	251	264
77.5°	164	172	172	194	196
80°	124	129	126	139	137
82.5°	84	89	84	91	87
85°	50	53	47	47	42
87.5°	16	18	10	10	6
90°	0	0	0	0	0
92.5°	19	16	13	15	16
95°	101	170	26	19	19
97.5°	190	382	212	120	56
100°	291	613	474	343	282
102.5°	403	777	734	626	548
105°	518	908	1016	898	833
107.5°	618	1026	1289	1186	1131
110°	732	1140	1524	1496	1422



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	838	1232	1653	1782	1738
115°	938	1312	1754	2022	2003
117.5°	1027	1381	1855	2144	2238
120°	1115	1442	1948	2226	2326
122.5°	1200	1499	2025	2295	2393
125°	1289	1553	2087	2369	2448
127.5°	1367	1607	2131	2434	2506
130°	1448	1658	2150	2480	2558
132.5°	1520	1711	2158	2509	2592
135°	1598	1766	2160	2516	2608
137.5°	1664	1815	2158	2496	2603
140°	1731	1865	2150	2461	2565
142.5°	1795	1912	2149	2420	2517
145°	1850	1956	2149	2376	2464
147.5°	1909	2000	2157	2330	2404
150°	1962	2038	2168	2297	2350
152.5°	2005	2072	2179	2269	2311
155°	2048	2101	2191	2256	2281
157.5°	2083	2123	2200	2249	2265
160°	2112	2144	2208	2244	2256
162.5°	2143	2162	2214	2241	2250
165°	2164	2177	2212	2235	2242
167.5°	2189	2195	2213	2231	2238
170°	2196	2198	2202	2208	2213
172.5°	2205	2205	2200	2195	2197
175°	2211	2209	2199	2189	2190
177.5°	2213	2212	2201	2190	2187
180°	2200	2200	2200	2200	2200

(END OF REPORT)