

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: ITL58758

Luminaire Tested: **NB-SW-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL58758
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-2T5
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: TWO 54-WATT T-5 SYLVANIA FP54/835/HO LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

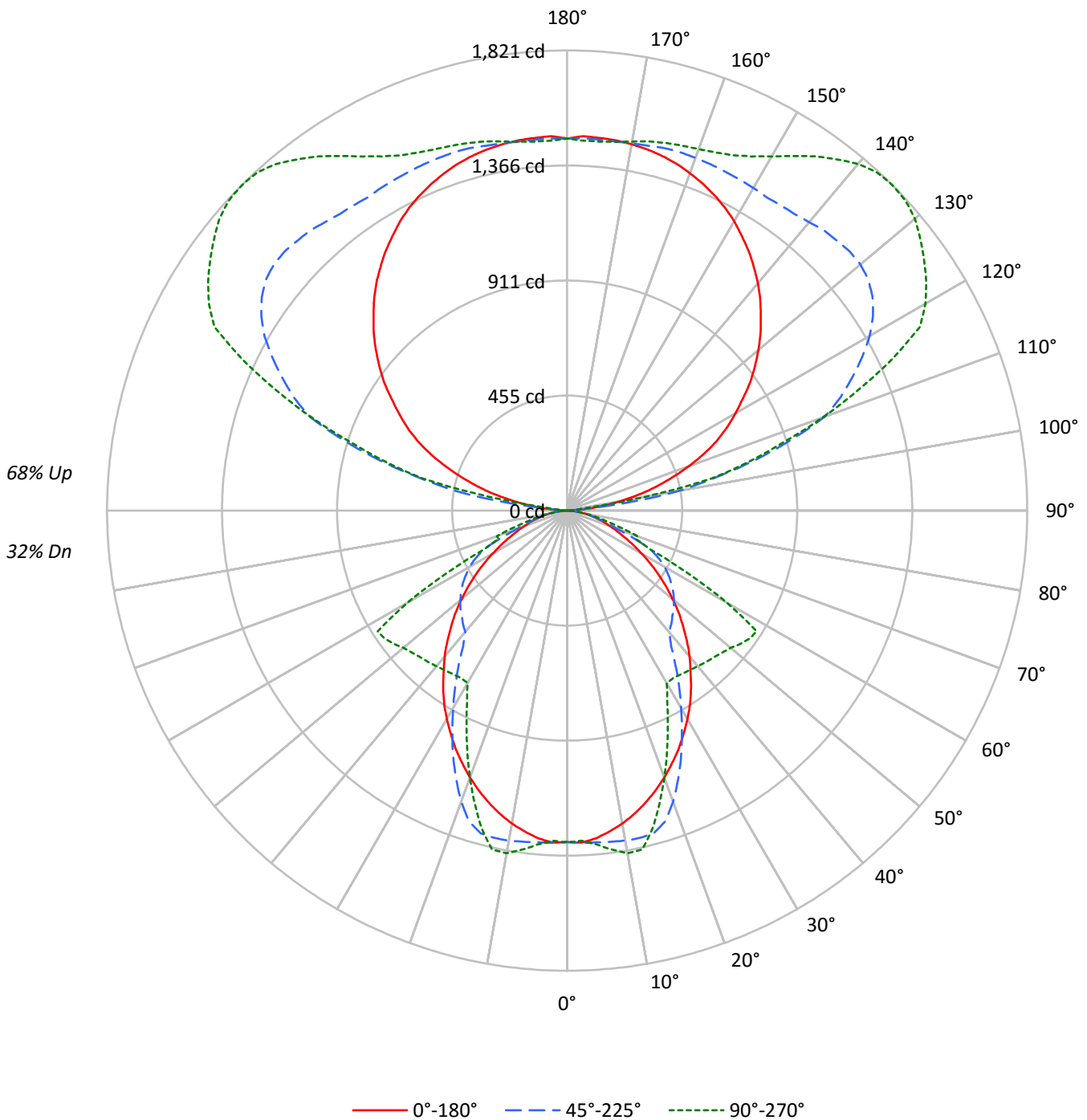
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 9552.8 lumens
Efficiency: 95.5%
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 0.98 / 1.11
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 118.2
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	50	30	10	0	
RCR																						
0	98	98	98	98	88	88	88	88	70	70	70	53	53	53	37	37	37	30				
1	90	86	82	79	81	77	74	72	61	59	58	47	46	44	33	33	32	26				
2	82	75	69	65	73	68	63	59	54	51	48	41	39	37	29	28	27	22				
3	75	66	59	54	67	60	54	49	48	44	40	36	34	32	26	25	23	19				
4	68	58	51	46	61	53	47	42	42	38	34	33	29	27	23	22	20	16				
5	63	52	44	39	56	47	41	36	38	33	29	29	26	23	21	19	17	14				
6	58	46	39	34	52	42	36	31	34	29	26	26	23	20	19	17	15	12				
7	53	42	35	29	48	38	32	27	31	26	23	24	21	18	18	15	14	11				
8	49	38	31	26	44	34	28	24	28	23	20	22	19	16	16	14	12	10				
9	46	35	28	23	41	31	25	21	26	21	18	20	17	14	15	13	11	9				
10	43	32	25	21	38	29	23	19	24	19	16	19	15	13	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5801	5801	5801
5°	5779	5850	5886
10°	5648	5954	6183
15°	5479	6052	5969
20°	5289	5769	5289
25°	5084	5211	4591
30°	4861	4605	4023
35°	4615	4038	4264
40°	4352	3619	4641
45°	4058	3683	5134
50°	3742	3797	5813
55°	3400	3885	6799
60°	3016	3935	6465
65°	2637	3808	3777
70°	2353	2689	3827
75°	2118	2255	2733
80°	1859	1910	2012
85°	1471	1370	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	125.7	1.3	1.3
10°-20°	358.0	3.7	3.6
20°-30°	478.8	5.0	4.8
30°-40°	506.9	5.3	5.1
40°-50°	521.2	5.5	5.2
50°-60°	509.0	5.3	5.1
60°-70°	336.1	3.5	3.4
70°-80°	150.7	1.6	1.5
80°-90°	33.7	0.4	0.3
90°-100°	127.4	1.3	1.3
100°-110°	715.4	7.5	7.2
110°-120°	1135.0	11.9	11.4
120°-130°	1236.1	12.9	12.4
130°-140°	1144.9	12.0	11.4
140°-150°	930.9	9.7	9.3
150°-160°	682.3	7.1	6.8
160°-170°	419.7	4.4	4.2
170°-180°	140.8	1.5	1.4
0°-30°	962.5	10.1	9.6
0°-40°	1469.4	15.4	14.7
0°-60°	2499.6	26.2	25.0
0°-90°	3020.1	31.6	30.2
90°-120°	1977.8	20.7	19.8
90°-150°	5289.9	55.4	52.9
90°-180°	6533.0	68.4	65.3
0°-180°	9552.8	100.0	95.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1302	1304	1318	1323	1326	123
15°	1197	1239	1322	1324	1304	337
25°	1042	1134	1068	976	941	479
35°	855	920	748	739	790	534
45°	649	641	589	727	821	501
55°	441	406	504	716	882	395
65°	252	258	364	397	361	252
75°	124	129	132	153	160	132
85°	29	31	27	27	24	33
90°	0	0	0	0	0	4
95°	77	173	34	21	21	90
105°	363	647	767	753	742	382
115°	653	937	1245	1431	1420	641
125°	884	1082	1475	1673	1725	788
135°	1083	1208	1510	1761	1821	837
145°	1253	1329	1474	1647	1711	784
155°	1378	1418	1480	1531	1551	635
165°	1453	1464	1485	1501	1506	410
175°	1480	1483	1473	1466	1466	141
180°	1472	1472	1472	1472	1472	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312	1312	1312	1312	1312
2.5°	1315	1313	1316	1310	1308
5°	1302	1304	1318	1323	1326
7.5°	1281	1292	1322	1343	1353
10°	1258	1276	1326	1361	1377
12.5°	1229	1259	1327	1372	1374
15°	1197	1239	1322	1324	1304
17.5°	1162	1219	1290	1245	1216
20°	1124	1194	1226	1158	1124
22.5°	1083	1166	1148	1066	1033
25°	1042	1134	1068	976	941
27.5°	997	1098	984	890	858
30°	952	1051	902	812	788
32.5°	906	990	824	747	784
35°	855	920	748	739	790
37.5°	802	848	676	736	796
40°	754	770	627	733	804
42.5°	702	712	610	732	813
45°	649	641	589	727	821
47.5°	599	578	573	725	832
50°	544	517	552	721	845
52.5°	494	458	529	717	866
55°	441	406	504	716	882
57.5°	391	361	476	709	889
60°	341	327	445	682	731
62.5°	294	294	409	545	540
65°	252	258	364	397	361
67.5°	214	219	282	269	294
70°	182	188	208	240	296
72.5°	153	159	164	210	219
75°	124	129	132	153	160
77.5°	98	102	102	112	114
80°	73	75	75	80	79
82.5°	50	52	50	51	48
85°	29	31	27	27	24
87.5°	9	11	6	6	4
90°	0	0	0	0	0
92.5°	19	19	15	17	17
95°	77	173	34	21	21
97.5°	137	295	240	122	64
100°	212	446	450	387	311
102.5°	289	557	597	616	586
105°	363	647	767	753	742
107.5°	436	740	929	921	896
110°	511	815	1084	1102	1075



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	585	886	1170	1270	1248
115°	653	937	1245	1431	1420
117.5°	714	981	1316	1514	1573
120°	768	1018	1383	1571	1637
122.5°	824	1051	1435	1624	1685
125°	884	1082	1475	1673	1725
127.5°	936	1114	1502	1718	1762
130°	988	1146	1515	1747	1797
132.5°	1038	1178	1517	1762	1816
135°	1083	1208	1510	1761	1821
137.5°	1131	1241	1504	1748	1815
140°	1175	1271	1490	1720	1791
142.5°	1214	1298	1479	1683	1752
145°	1253	1329	1474	1647	1711
147.5°	1287	1352	1470	1603	1663
150°	1322	1380	1474	1572	1618
152.5°	1352	1400	1477	1546	1580
155°	1378	1418	1480	1531	1551
157.5°	1401	1432	1483	1520	1534
160°	1421	1444	1485	1512	1522
162.5°	1439	1456	1487	1508	1514
165°	1453	1464	1485	1501	1506
167.5°	1464	1472	1479	1491	1496
170°	1472	1477	1475	1479	1483
172.5°	1478	1481	1473	1470	1472
175°	1480	1483	1473	1466	1466
177.5°	1483	1485	1474	1466	1465
180°	1472	1472	1472	1472	1472

(END OF REPORT)