

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: ITL58762

Luminaire Tested: **NB-SW-3T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL58762
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8
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 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: TWO UNIVERSAL B232IUNVHP-B

Summary

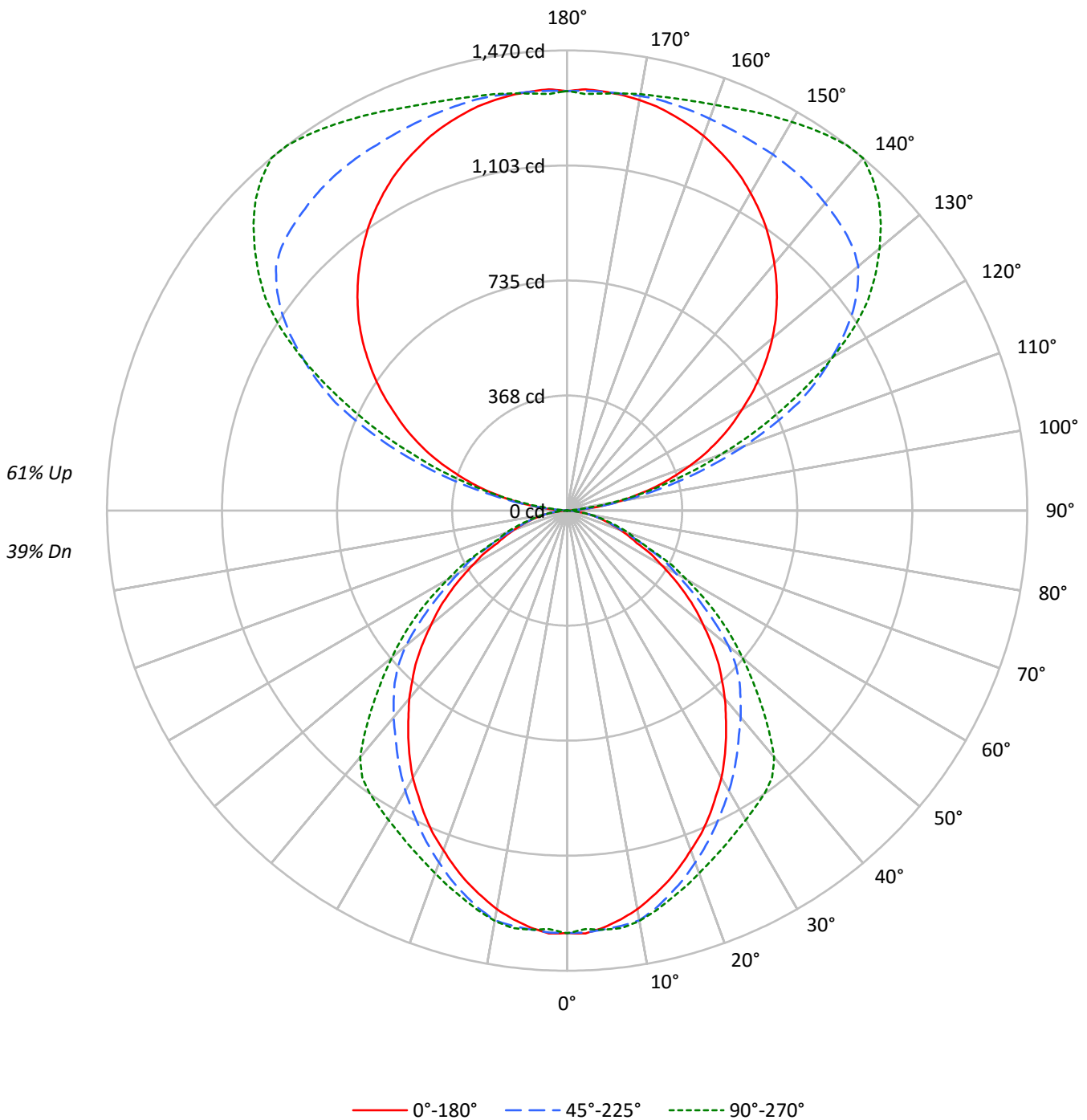
Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 8104.6 lumens
Efficiency: 91.6%
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.27 / 1.29
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 90.7
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										
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	50	30	10	0														
RCR																																						
0	96	96	96	96	87	87	87	87	71	71	71	56	56	56	42	42	42	35																				
1	88	84	80	77	79	76	73	71	62	60	58	49	48	47	37	37	36	30																				
2	80	73	68	64	72	67	62	59	55	52	49	44	41	40	33	32	31	26																				
3	73	65	58	53	66	59	54	49	49	45	41	39	36	34	30	28	26	22																				
4	67	57	50	45	61	53	46	42	43	39	35	35	32	29	27	25	23	19																				
5	61	51	44	39	56	47	41	36	39	34	31	31	28	25	24	22	20	17																				
6	57	46	39	34	51	42	36	31	35	30	27	28	25	22	22	20	18	15																				
7	52	41	34	29	47	38	32	27	32	27	23	26	22	20	20	18	16	13																				
8	48	38	31	26	44	35	28	24	29	24	21	23	20	17	18	16	14	12																				
9	45	34	28	23	41	32	26	22	26	22	19	22	18	16	17	15	13	11																				
10	42	31	25	21	38	29	23	19	24	20	17	20	17	14	16	13	12	10																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5969	5969	5969
5°	5934	5961	5965
10°	5805	5967	5976
15°	5631	5809	5873
20°	5435	5632	5802
25°	5245	5450	5781
30°	5034	5279	5826
35°	4777	5106	5943
40°	4525	4976	5939
45°	4258	4871	5484
50°	3900	4630	5028
55°	3538	4086	4548
60°	3069	3537	3891
65°	2574	2982	3066
70°	2340	2443	2715
75°	2101	2153	2306
80°	1833	1833	1935
85°	1370	1268	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	127.4	1.6	1.4
10°-20°	356.1	4.4	4.0
20°-30°	519.1	6.4	5.9
30°-40°	607.4	7.5	6.9
40°-50°	597.0	7.4	6.7
50°-60°	469.3	5.8	5.3
60°-70°	284.2	3.5	3.2
70°-80°	137.1	1.7	1.5
80°-90°	31.4	0.4	0.4
90°-100°	67.4	0.8	0.8
100°-110°	388.0	4.8	4.4
110°-120°	730.1	9.0	8.3
120°-130°	924.5	11.4	10.4
130°-140°	937.8	11.6	10.6
140°-150°	810.2	10.0	9.2
150°-160°	610.7	7.5	6.9
160°-170°	378.9	4.7	4.3
170°-180°	128.0	1.6	1.4
0°-30°	1002.5	12.4	11.3
0°-40°	1609.9	19.9	18.2
0°-60°	2676.2	33.0	30.2
0°-90°	3128.9	38.6	35.4
90°-120°	1185.6	14.6	13.4
90°-150°	3858.0	47.6	43.6
90°-180°	4976.0	61.4	56.2
0°-180°	8104.6	100.0	91.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1337	1338	1343	1343	1344	126
15°	1230	1253	1269	1277	1283	346
25°	1075	1104	1117	1156	1185	494
35°	885	909	946	1035	1101	553
45°	681	703	779	845	877	523
55°	459	487	530	559	590	410
65°	246	265	285	293	293	254
75°	123	126	126	132	135	131
85°	27	28	25	24	22	31
90°	0	0	0	0	0	3
95°	56	74	36	13	12	69
105°	292	440	381	340	319	306
115°	536	738	816	776	750	529
125°	754	912	1116	1163	1174	673
135°	947	1051	1257	1383	1407	731
145°	1107	1168	1302	1415	1460	692
155°	1228	1263	1322	1381	1406	566
165°	1308	1321	1341	1354	1362	369
175°	1344	1345	1343	1336	1337	128
180°	1340	1340	1340	1340	1340	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350	1350	1350	1350	1350
2.5°	1352	1351	1349	1341	1338
5°	1337	1338	1343	1343	1344
7.5°	1317	1320	1338	1345	1345
10°	1293	1303	1329	1330	1331
12.5°	1262	1279	1302	1306	1309
15°	1230	1253	1269	1277	1283
17.5°	1194	1224	1235	1248	1259
20°	1155	1186	1197	1216	1233
22.5°	1118	1145	1158	1185	1208
25°	1075	1104	1117	1156	1185
27.5°	1029	1059	1075	1126	1162
30°	986	1011	1034	1095	1141
32.5°	936	961	991	1065	1121
35°	885	909	946	1035	1101
37.5°	833	856	902	1007	1075
40°	784	804	862	971	1029
42.5°	731	756	820	920	954
45°	681	703	779	845	877
47.5°	624	650	731	767	803
50°	567	597	673	695	731
52.5°	516	542	602	627	662
55°	459	487	530	559	590
57.5°	403	432	463	491	515
60°	347	375	400	425	440
62.5°	304	334	354	372	376
65°	246	265	285	293	293
67.5°	213	218	233	238	235
70°	181	185	189	193	210
72.5°	150	155	155	167	171
75°	123	126	126	132	135
77.5°	96	99	99	103	105
80°	72	75	72	74	76
82.5°	49	51	48	48	45
85°	27	28	25	24	22
87.5°	7	7	4	4	2
90°	0	0	0	0	0
92.5°	12	14	8	10	11
95°	56	74	36	13	12
97.5°	107	149	107	77	63
100°	168	242	187	162	145
102.5°	226	342	277	248	231
105°	292	440	381	340	319
107.5°	352	530	488	437	421
110°	415	608	602	547	522



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	478	679	709	663	637
115°	536	738	816	776	750
117.5°	592	785	901	889	867
120°	645	828	976	995	980
122.5°	701	870	1050	1091	1086
125°	754	912	1116	1163	1174
127.5°	805	952	1170	1229	1242
130°	856	987	1214	1288	1303
132.5°	903	1022	1240	1341	1359
135°	947	1051	1257	1383	1407
137.5°	990	1082	1270	1414	1443
140°	1030	1111	1282	1424	1470
142.5°	1069	1140	1293	1421	1470
145°	1107	1168	1302	1415	1460
147.5°	1140	1194	1308	1408	1448
150°	1172	1219	1314	1400	1434
152.5°	1202	1242	1317	1391	1420
155°	1228	1263	1322	1381	1406
157.5°	1251	1281	1327	1370	1391
160°	1274	1297	1332	1365	1379
162.5°	1292	1310	1337	1359	1370
165°	1308	1321	1341	1354	1362
167.5°	1322	1329	1345	1350	1355
170°	1332	1336	1345	1346	1351
172.5°	1339	1341	1343	1341	1344
175°	1344	1345	1343	1336	1337
177.5°	1347	1347	1342	1333	1332
180°	1340	1340	1340	1340	1340

(END OF REPORT)