

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: ITL63567

Luminaire Tested: **NB-SM-3T8-1C-120**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL63567  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SM-3T8-1C-120  
Description: EXTRUDED METAL HOUSING WITH UNFINISHED METAL END PLATES, FORMED WHITE PAINTED METAL REFLECTORS, ONE FORMED SEMI-SPECULAR METAL REFLECTOR INSERT ON EACH SIDE, CLEAR FLAT MICRO-LINEAR PRISMATIC PLASTIC LENS, LENS PRISMS DOWN AND PARALLEL WITH LAMPS, OPEN TOP.  
Light Source: THREE 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.  
Ballast/Driver: TWO UNIVERSAL B232IUNVHP-B

**Summary**

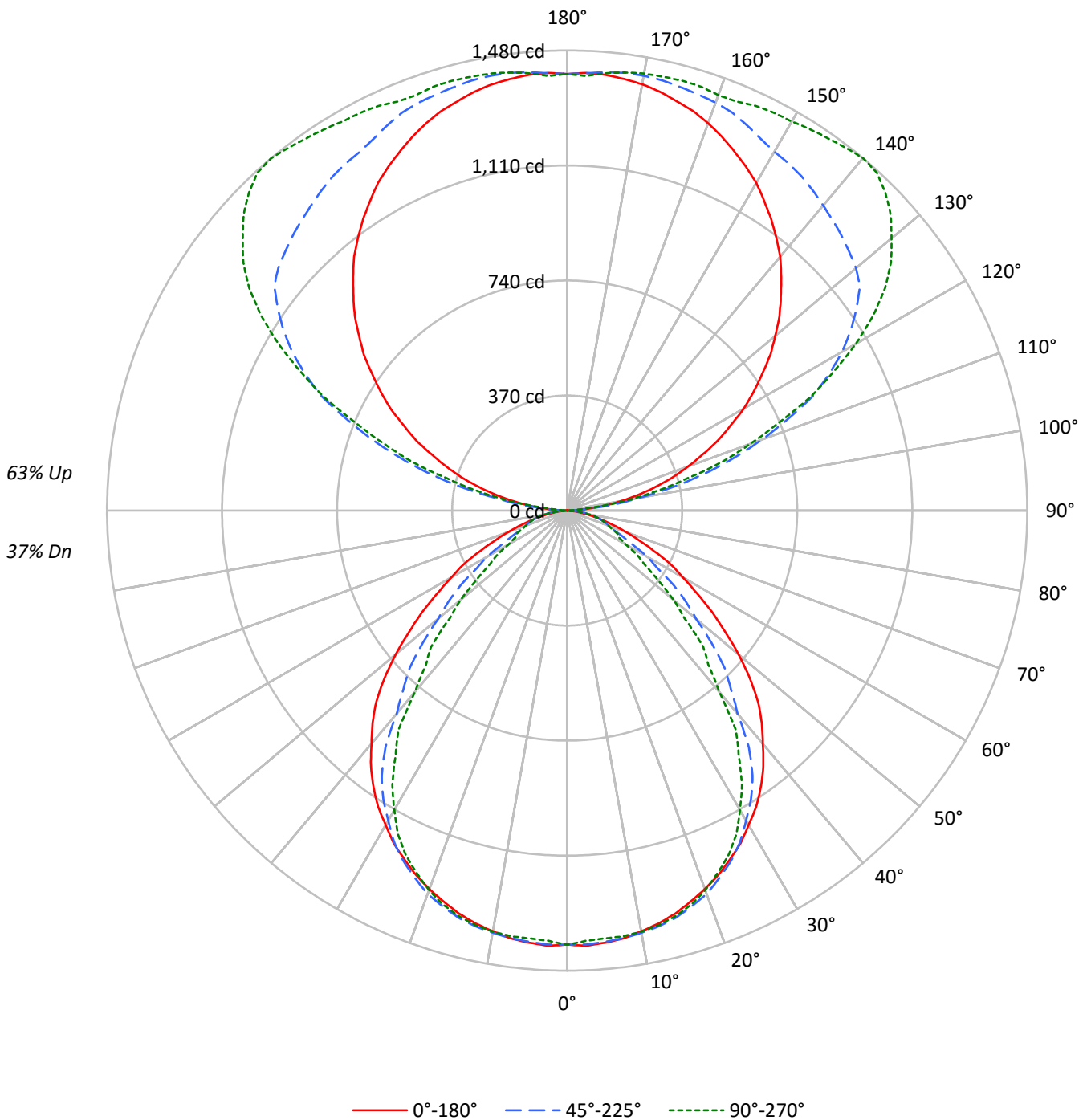
Lumens per Lamp: 2950 (3 lamps)  
Luminaire Lumens: 8255.8 lumens  
Efficiency: 93.3%  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.23  
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	97	97	97	97	88	88	88	88	71	71	71	55	55	55	41	41	41	34
1	89	85	82	79	81	77	75	72	63	61	59	49	48	47	37	36	36	30
2	81	75	70	65	74	68	64	60	56	52	50	44	42	40	33	32	31	26
3	74	66	60	55	67	60	55	50	49	45	42	39	37	34	30	28	27	22
4	68	59	52	47	62	54	48	43	44	40	36	35	32	30	27	25	23	20
5	63	53	45	40	57	48	42	37	40	35	31	32	29	26	24	22	21	17
6	58	47	40	35	52	43	37	32	36	31	28	29	25	23	22	20	18	15
7	54	43	36	31	49	39	33	29	32	28	24	26	23	20	20	18	16	14
8	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	12
9	46	35	29	24	42	33	27	23	27	23	19	22	19	16	17	15	13	11
10	43	32	26	22	39	30	24	20	25	21	18	20	17	15	16	14	12	10

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

	0°	45°	90°
0°	6128	6128	6128
5°	6147	6134	6086
10°	6125	6147	6129
15°	6099	6158	6136
20°	6050	6129	6069
25°	5997	6031	5934
30°	5916	5835	5637
35°	5820	5574	5156
40°	5610	4888	4367
45°	5389	4451	3843
50°	4917	3695	3053
55°	4355	3192	2342
60°	3775	2625	1905
65°	3220	2046	1880
70°	2593	1823	1810
75°	1985	1917	1917
80°	1390	1896	1846
85°	756	1461	1360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	132.3	1.6	1.5
10°-20°	380.6	4.6	4.3
20°-30°	569.5	6.9	6.4
30°-40°	642.0	7.8	7.3
40°-50°	557.3	6.8	6.3
50°-60°	385.2	4.7	4.4
60°-70°	226.0	2.7	2.6
70°-80°	121.3	1.5	1.4
80°-90°	33.5	0.4	0.4
90°-100°	93.8	1.1	1.1
100°-110°	447.5	5.4	5.1
110°-120°	779.5	9.4	8.8
120°-130°	953.2	11.5	10.8
130°-140°	949.9	11.5	10.7
140°-150°	822.0	10.0	9.3
150°-160°	630.0	7.6	7.1
160°-170°	397.3	4.8	4.5
170°-180°	134.8	1.6	1.5
0°-30°	1082.5	13.1	12.2
0°-40°	1724.4	20.9	19.5
0°-60°	2666.9	32.3	30.1
0°-90°	3047.7	36.9	34.4
90°-120°	1320.9	16.0	14.9
90°-150°	4045.9	49.0	45.7
90°-180°	5208.0	63.1	58.8
0°-180°	8255.8	100.0	93.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1395	1396	1392	1384	1381	133
15°	1342	1347	1355	1351	1350	378
25°	1238	1248	1245	1231	1225	571
35°	1086	1085	1040	989	962	677
45°	868	820	717	629	619	663
55°	569	515	417	342	306	508
65°	310	285	197	175	181	310
75°	117	116	113	112	113	127
85°	15	32	29	30	27	21
90°	0	0	0	0	0	4
95°	65	107	66	48	28	78
105°	294	469	456	415	401	311
115°	537	737	872	870	862	528
125°	765	912	1136	1224	1248	685
135°	972	1062	1249	1406	1447	750
145°	1144	1212	1313	1414	1462	716
155°	1274	1322	1368	1408	1436	588
165°	1363	1388	1410	1421	1431	385
175°	1407	1410	1415	1410	1412	134
180°	1404	1404	1404	1404	1404	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396	1396	1396	1396	1396
2.5°	1401	1401	1397	1387	1385
5°	1395	1396	1392	1384	1381
7.5°	1388	1388	1387	1381	1381
10°	1374	1378	1379	1376	1375
12.5°	1360	1364	1369	1365	1365
15°	1342	1347	1355	1351	1350
17.5°	1319	1330	1334	1332	1328
20°	1295	1306	1312	1303	1299
22.5°	1269	1280	1279	1272	1263
25°	1238	1248	1245	1231	1225
27.5°	1207	1214	1204	1190	1177
30°	1167	1174	1151	1131	1112
32.5°	1131	1133	1101	1070	1047
35°	1086	1085	1040	989	962
37.5°	1037	1023	960	901	892
40°	979	962	853	830	762
42.5°	926	885	780	716	672
45°	868	820	717	629	619
47.5°	796	748	629	573	512
50°	720	658	541	474	447
52.5°	640	583	482	415	370
55°	569	515	417	342	306
57.5°	494	456	343	282	269
60°	430	387	299	235	217
62.5°	377	329	237	202	188
65°	310	285	197	175	181
67.5°	252	230	158	165	157
70°	202	190	142	147	141
72.5°	155	149	129	129	126
75°	117	116	113	112	113
77.5°	82	89	93	98	95
80°	55	71	75	76	73
82.5°	32	52	52	54	49
85°	15	32	29	30	27
87.5°	6	11	10	11	7
90°	0	0	0	0	0
92.5°	24	31	9	9	8
95°	65	107	66	48	28
97.5°	121	184	154	127	109
100°	176	286	236	222	206
102.5°	234	386	347	315	304
105°	294	469	456	415	401
107.5°	357	553	562	536	525
110°	413	622	666	647	625



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	472	690	768	763	736
115°	537	737	872	870	862
117.5°	592	779	949	969	965
120°	656	824	1021	1077	1072
122.5°	711	866	1082	1156	1166
125°	765	912	1136	1224	1248
127.5°	824	954	1187	1281	1313
130°	873	993	1213	1334	1362
132.5°	926	1026	1231	1375	1411
135°	972	1062	1249	1406	1447
137.5°	1019	1104	1265	1421	1474
140°	1066	1143	1281	1418	1480
142.5°	1105	1182	1298	1417	1471
145°	1144	1212	1313	1414	1462
147.5°	1180	1242	1324	1412	1454
150°	1217	1271	1333	1413	1445
152.5°	1246	1298	1348	1415	1442
155°	1274	1322	1368	1408	1436
157.5°	1301	1342	1386	1405	1424
160°	1326	1361	1396	1415	1422
162.5°	1347	1376	1403	1420	1430
165°	1363	1388	1410	1421	1431
167.5°	1380	1400	1417	1423	1429
170°	1392	1406	1420	1421	1427
172.5°	1400	1409	1420	1418	1421
175°	1407	1410	1415	1410	1412
177.5°	1409	1409	1408	1400	1399
180°	1404	1404	1404	1404	1404

(END OF REPORT)