

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: ITL63573

Luminaire Tested: **NB-SM-3T5-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63573
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SM-3T5-1C-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 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.
Ballast/Driver: TWO UNIVERSAL B254PUNV-D

Summary

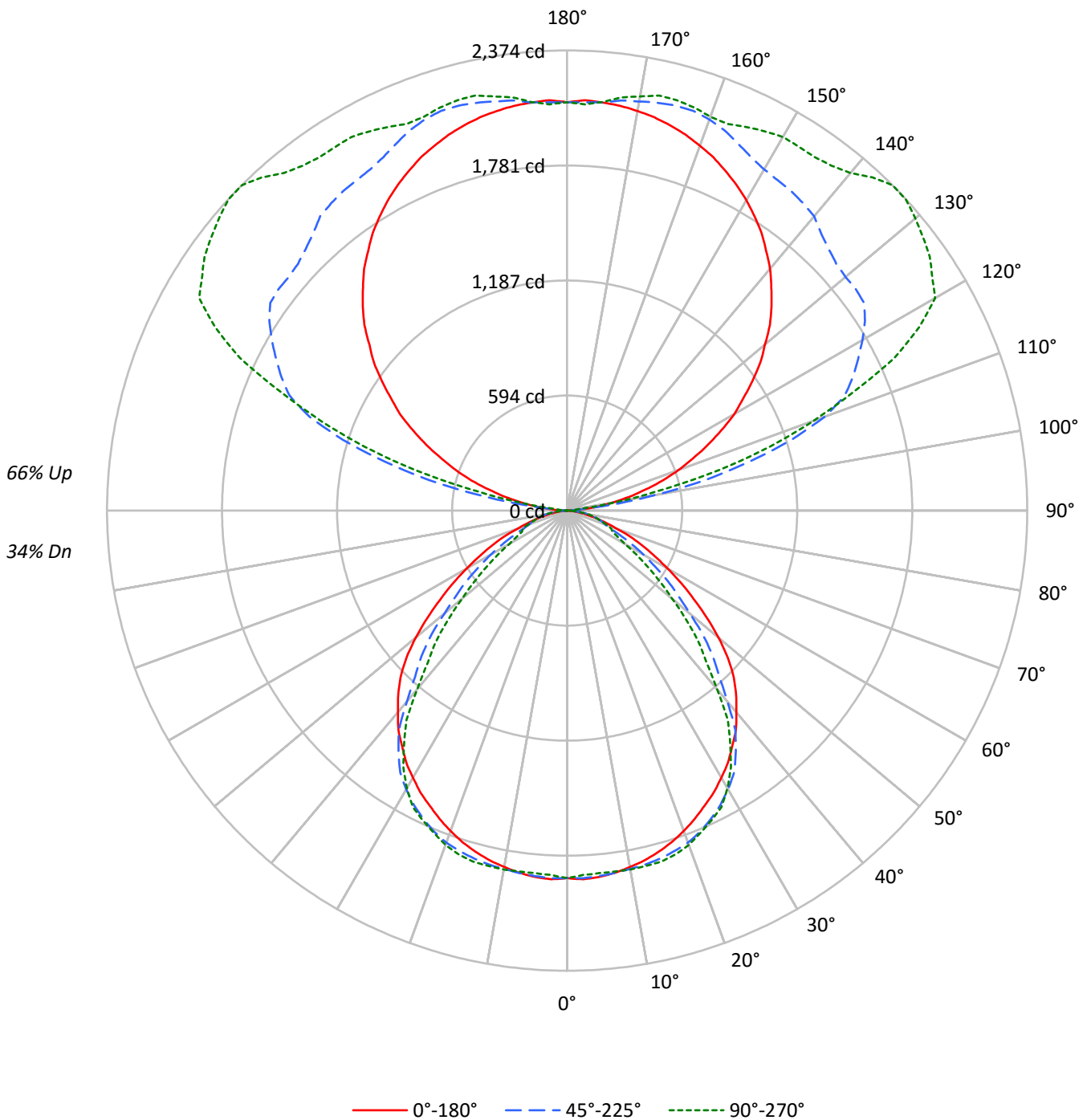
Lumens per Lamp: 4450 (3 lamps)
Luminaire Lumens: 12977.7 lumens
Efficiency: 97.2%
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.28
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 184.5
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	100	100	100	100	91	91	91	91	72	72	72	56	56	56	40	40	40	33
1	92	88	84	81	83	80	77	74	64	62	60	49	48	47	36	35	35	29
2	84	77	72	67	76	70	65	61	56	53	50	44	42	40	32	31	30	25
3	77	68	62	56	69	62	56	52	50	46	43	39	36	34	29	27	26	21
4	70	61	53	48	63	55	49	44	45	40	37	35	32	29	26	24	23	19
5	65	54	47	41	58	49	43	38	40	35	32	32	28	26	24	21	20	16
6	60	48	41	36	54	44	38	33	36	31	28	29	25	23	21	19	18	14
7	55	44	36	31	50	40	33	29	33	28	24	26	23	20	20	17	16	13
8	51	40	32	28	46	36	30	26	30	25	22	24	20	18	18	16	14	12
9	48	36	29	24	43	33	27	23	27	23	19	22	18	16	17	14	13	11
10	44	33	26	22	40	30	24	20	25	21	17	20	17	14	15	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8323	8323	8323
5°	8360	8342	8276
10°	8323	8367	8380
15°	8285	8444	8522
20°	8218	8517	8573
25°	8133	8501	8540
30°	8065	8415	8384
35°	7953	8130	7857
40°	7782	7370	6894
45°	7549	6606	5954
50°	6966	5641	4829
55°	6115	4845	3896
60°	5242	3986	3003
65°	4446	3137	2670
70°	3466	2670	2798
75°	2680	2731	2731
80°	1846	2781	2831
85°	957	2267	2267



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	179.9	1.4	1.3
10°-20°	523.0	4.0	3.9
20°-30°	800.5	6.2	6.0
30°-40°	931.8	7.2	7.0
40°-50°	826.6	6.4	6.2
50°-60°	577.3	4.4	4.3
60°-70°	333.1	2.6	2.5
70°-80°	174.9	1.3	1.3
80°-90°	49.4	0.4	0.4
90°-100°	136.5	1.1	1.0
100°-110°	862.1	6.6	6.5
110°-120°	1454.6	11.2	10.9
120°-130°	1603.8	12.4	12.0
130°-140°	1488.9	11.5	11.2
140°-150°	1263.1	9.7	9.5
150°-160°	963.9	7.4	7.2
160°-170°	605.7	4.7	4.5
170°-180°	202.7	1.6	1.5
0°-30°	1503.4	11.6	11.3
0°-40°	2435.2	18.8	18.2
0°-60°	3839.1	29.6	28.8
0°-90°	4396.5	33.9	32.9
90°-120°	2453.2	18.9	18.4
90°-150°	6809.0	52.5	51.0
90°-180°	8581.0	66.1	64.3
0°-180°	12977.7	100.0	97.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1897	1896	1893	1884	1878	180
15°	1823	1832	1858	1870	1875	514
25°	1679	1715	1755	1761	1763	775
35°	1484	1524	1517	1485	1466	929
45°	1216	1166	1064	978	959	930
55°	799	733	633	543	509	717
65°	428	402	302	269	257	426
75°	158	166	161	168	161	171
85°	19	44	45	46	45	27
90°	0	0	0	0	0	5
95°	91	180	35	30	26	106
105°	418	834	972	860	816	445
115°	800	1130	1626	1849	1863	792
125°	1167	1435	1869	2171	2284	1043
135°	1491	1632	1908	2232	2374	1149
145°	1749	1889	2013	2165	2226	1093
155°	1933	2046	2088	2139	2184	892
165°	2057	2106	2163	2185	2191	581
175°	2113	2115	2113	2113	2116	201
180°	2106	2106	2106	2106	2106	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1896	1896	1896	1896	1896
2.5°	1904	1902	1898	1887	1882
5°	1897	1896	1893	1884	1878
7.5°	1885	1884	1886	1880	1878
10°	1867	1871	1877	1879	1880
12.5°	1848	1852	1870	1875	1878
15°	1823	1832	1858	1870	1875
17.5°	1794	1809	1842	1858	1860
20°	1759	1780	1823	1832	1835
22.5°	1721	1752	1793	1800	1799
25°	1679	1715	1755	1761	1763
27.5°	1639	1679	1712	1719	1724
30°	1591	1628	1660	1654	1654
32.5°	1544	1581	1603	1580	1572
35°	1484	1524	1517	1485	1466
37.5°	1430	1451	1425	1369	1362
40°	1358	1370	1286	1252	1203
42.5°	1290	1268	1161	1106	1064
45°	1216	1166	1064	978	959
47.5°	1125	1063	951	882	833
50°	1020	950	826	752	707
52.5°	908	842	722	647	605
55°	799	733	633	543	509
57.5°	698	651	539	451	423
60°	597	558	454	371	342
62.5°	510	477	378	311	293
65°	428	402	302	269	257
67.5°	353	330	242	237	248
70°	270	271	208	225	218
72.5°	211	211	189	198	185
75°	158	166	161	168	161
77.5°	108	124	135	140	138
80°	73	99	110	111	112
82.5°	41	73	78	81	77
85°	19	44	45	46	45
87.5°	6	17	17	17	16
90°	0	0	0	0	0
92.5°	27	21	14	15	13
95°	91	180	35	30	26
97.5°	164	375	222	103	61
100°	241	590	463	336	274
102.5°	326	735	731	600	517
105°	418	834	972	860	816
107.5°	517	936	1212	1132	1097
110°	611	1032	1414	1383	1350



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	701	1091	1550	1645	1597
115°	800	1130	1626	1849	1863
117.5°	896	1198	1692	2003	2046
120°	995	1287	1759	2069	2192
122.5°	1077	1371	1822	2127	2234
125°	1167	1435	1869	2171	2284
127.5°	1258	1483	1877	2209	2315
130°	1332	1532	1875	2246	2345
132.5°	1419	1579	1884	2262	2372
135°	1491	1632	1908	2232	2374
137.5°	1559	1701	1939	2192	2331
140°	1629	1765	1982	2165	2273
142.5°	1687	1832	1999	2159	2242
145°	1749	1889	2013	2165	2226
147.5°	1799	1937	2021	2178	2225
150°	1849	1984	2032	2169	2226
152.5°	1893	2018	2055	2156	2206
155°	1933	2046	2088	2139	2184
157.5°	1972	2067	2123	2136	2159
160°	2003	2084	2147	2154	2162
162.5°	2033	2095	2162	2173	2180
165°	2057	2106	2163	2185	2191
167.5°	2078	2112	2155	2181	2193
170°	2093	2113	2143	2160	2169
172.5°	2106	2113	2134	2140	2150
175°	2113	2115	2113	2113	2116
177.5°	2119	2117	2108	2099	2098
180°	2106	2106	2106	2106	2106

(END OF REPORT)