

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: 46639

Luminaire Tested: **AI-WN-3T8**

Issue Date: 3/3/2020

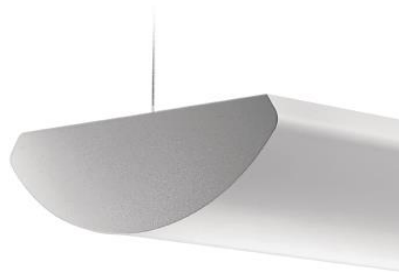
Test Information

Test Method: LM-41-14
Report Number: 46639
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AI-WN-3T8
Description: FABRICATED METAL HOUSING WITH WHITE INTERIOR FINISH, WHITE PAINTED CENTER REFLECTOR STRIP WITH WHITE PAINTED METAL SIDE PIECES, OPEN TOP. CENTER LAMP MOUNTED OBLIQUELY ACROSS CENTER STRIP.
Light Source: THREE 32-WATT F32T8/TL841 FLUORESCENTS.
Ballast/Driver: MOTOROLA M3-RN-T8-1LL-120
MOUNTING SUSPENDED
PAINT REFL 87.2 %
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
TOTAL INPUT WATTS= 81.0 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

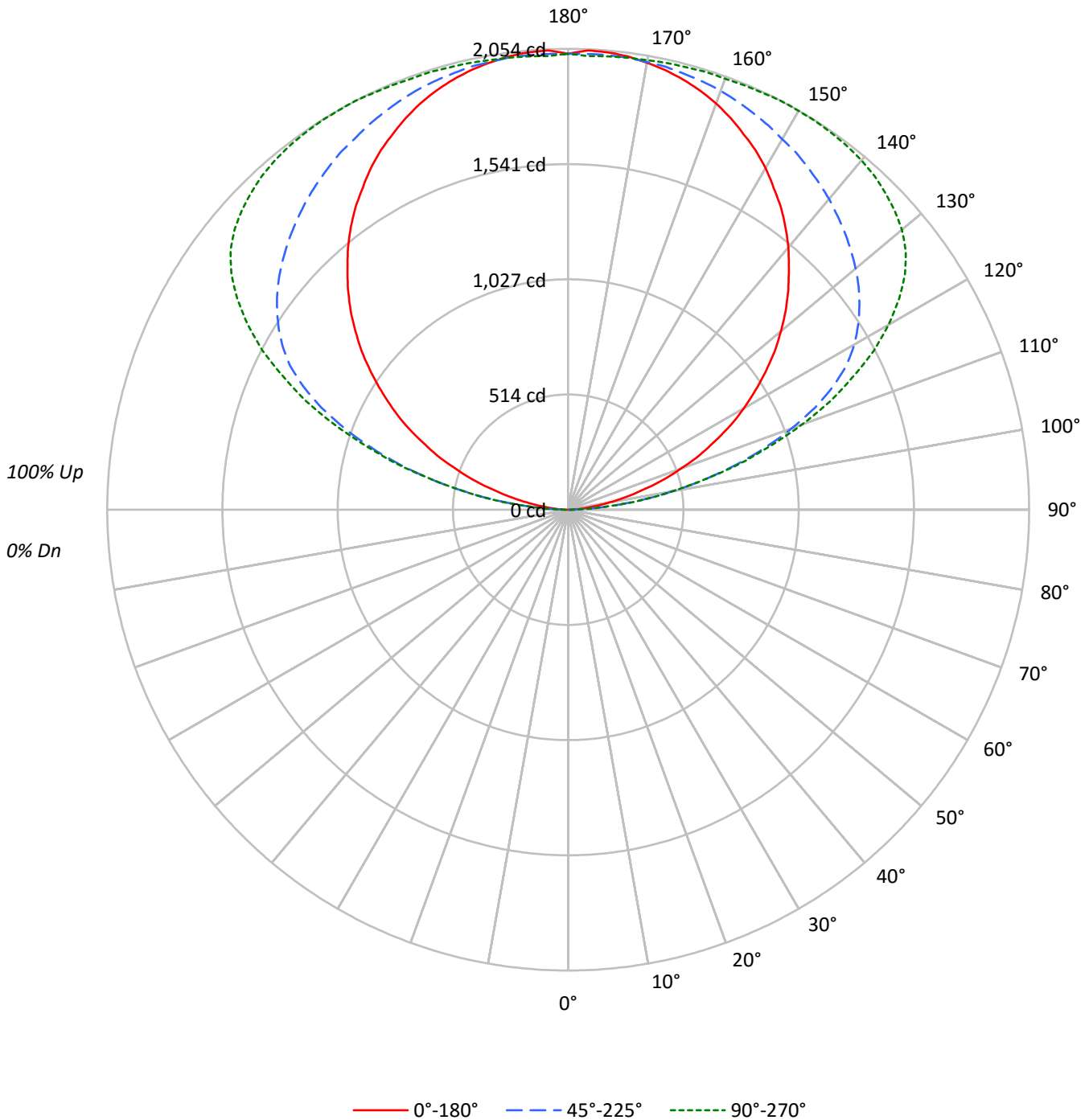
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7673.3 lumens
Efficiency: 85.3%
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): 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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	81	81	81	81	69	69	69	69	47	47	47	27	27	27	9	9	9	0	0	0	0
1	74	70	67	65	63	60	58	56	41	40	38	24	23	22	8	7	7	0	0	0	0
2	67	61	57	53	57	53	49	45	36	34	32	21	20	19	7	6	6	0	0	0	0
3	61	54	48	44	52	46	42	38	32	29	27	18	17	16	6	5	5	0	0	0	0
4	56	47	41	37	47	41	36	32	28	25	22	16	15	13	5	5	4	0	0	0	0
5	51	42	36	31	43	36	31	27	25	22	19	14	13	11	5	4	4	0	0	0	0
6	47	37	31	27	40	32	27	23	22	19	16	13	11	10	4	4	3	0	0	0	0
7	43	33	27	23	37	29	24	20	20	17	14	12	10	8	4	3	3	0	0	0	0
8	40	30	24	20	34	26	21	17	18	15	12	10	9	7	3	3	2	0	0	0	0
9	37	27	21	17	31	23	19	15	16	13	11	9	8	6	3	3	2	0	0	0	0
10	34	25	19	15	29	21	17	13	15	12	9	9	7	6	3	2	2	0	0	0	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	214.5	2.8	2.4
100°-110°	753.3	9.8	8.4
110°-120°	1183.7	15.4	13.2
120°-130°	1363.1	17.8	15.1
130°-140°	1330.3	17.3	14.8
140°-150°	1164.4	15.2	12.9
150°-160°	901.3	11.7	10.0
160°-170°	568.9	7.4	6.3
170°-180°	193.8	2.5	2.2
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	2151.5	28.0	23.9
90°-150°	6009.3	78.3	66.8
90°-180°	7673.0	100.0	85.3
0°-180°	7673.3	100.0	85.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	7
95°	68	196	187	220	191	80
105°	349	717	773	810	791	375
115°	719	1036	1304	1406	1399	714
125°	1074	1288	1584	1788	1832	960
135°	1387	1518	1744	1934	1998	1069
145°	1650	1724	1862	1995	2048	1031
155°	1848	1885	1951	2017	2050	853
165°	1984	1989	2010	2028	2041	560
175°	2046	2037	2034	2025	2028	195
180°	2032	2032	2032	2032	2032	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	25	84	69	96	74
95°	68	196	187	220	191
97.5°	120	327	326	361	333
100°	188	460	468	506	473
102.5°	268	598	622	655	621
105°	349	717	773	810	791
107.5°	446	815	921	968	943
110°	533	897	1060	1133	1106
112.5°	633	971	1191	1277	1264
115°	719	1036	1304	1406	1399
117.5°	817	1102	1399	1526	1535
120°	904	1164	1472	1632	1648
122.5°	988	1228	1532	1717	1748
125°	1074	1288	1584	1788	1832
127.5°	1160	1348	1632	1838	1896
130°	1237	1408	1672	1876	1941
132.5°	1315	1463	1709	1908	1973
135°	1387	1518	1744	1934	1998
137.5°	1455	1572	1776	1955	2019
140°	1526	1627	1808	1971	2033
142.5°	1590	1678	1836	1984	2042
145°	1650	1724	1862	1995	2048
147.5°	1703	1770	1888	2003	2052
150°	1759	1810	1907	2009	2053
152.5°	1807	1851	1931	2016	2054
155°	1848	1885	1951	2017	2050
157.5°	1890	1916	1970	2020	2048
160°	1927	1945	1987	2024	2044
162.5°	1958	1970	2000	2029	2045
165°	1984	1989	2010	2028	2041
167.5°	2006	2007	2021	2029	2039
170°	2023	2019	2026	2027	2034
172.5°	2038	2031	2032	2027	2032
175°	2046	2037	2034	2025	2028
177.5°	2049	2039	2033	2023	2024
180°	2032	2032	2032	2032	2032

(END OF REPORT)