

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: 46591

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

Issue Date: 3/3/2020

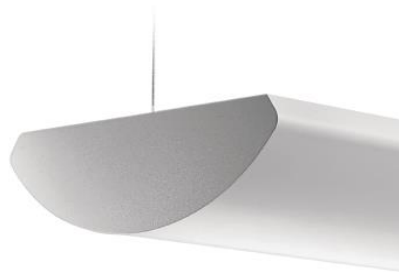
Test Information

Test Method: LM-41-14
Report Number: 46591
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AI-SN-3T8
Description: FABRICATED METAL HOUSING WITH WHITE INTERIOR FINISH, WHITE PAINTED CENTER STRIP REFLECTOR WITH SPECULAR 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 87.1 %
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
TOTAL INPUT WATTS= 81.1 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

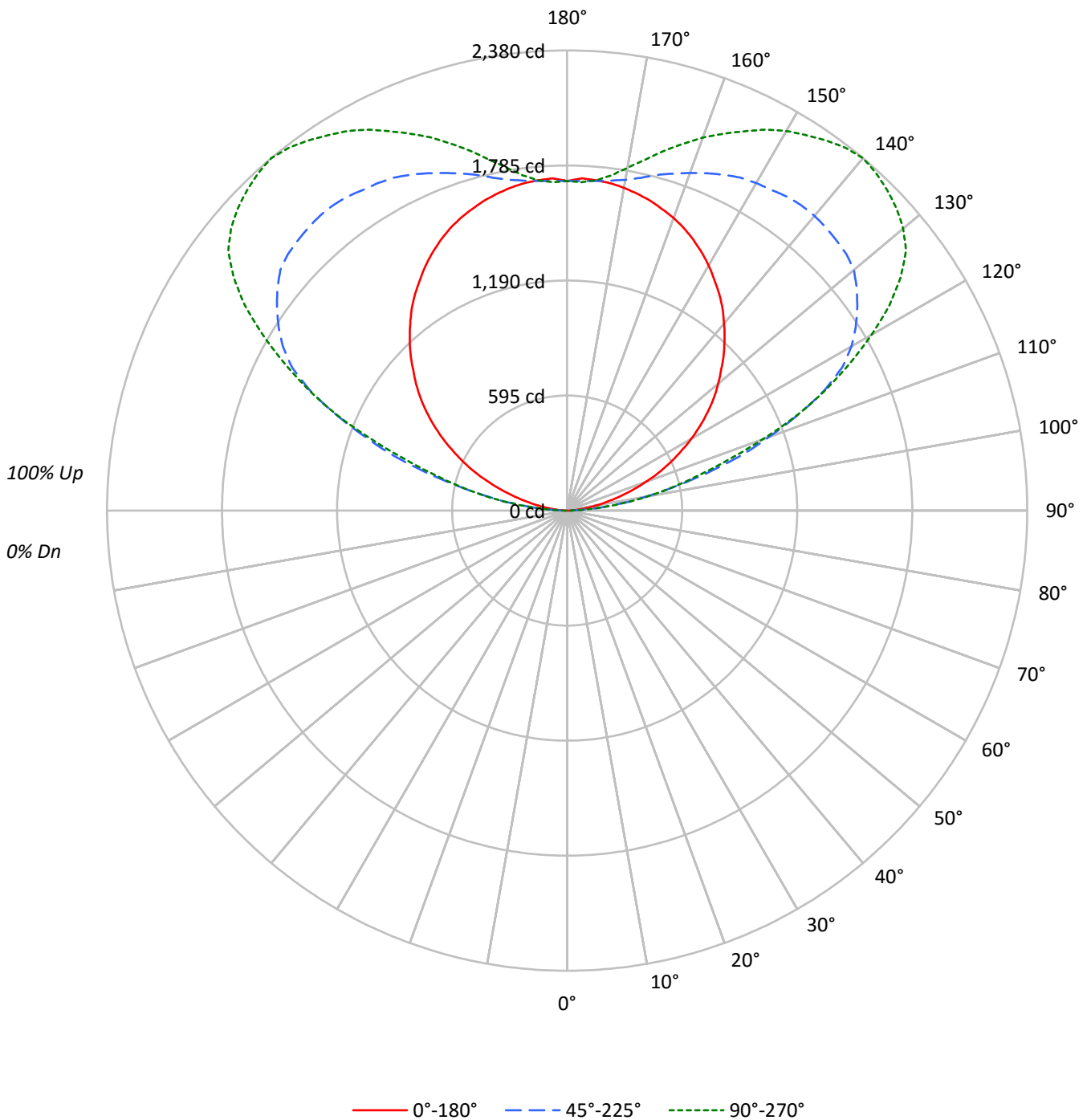
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7879.7 lumens
Efficiency: 87.6%
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 81.1
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	83	83	83	83	71	71	71	71	49	49	49	28	28	28	9	9	9	0												
1	76	72	69	66	65	62	59	57	42	41	39	24	24	23	8	8	7	0												
2	69	63	58	54	59	54	50	47	37	35	33	21	20	19	7	7	6	0												
3	63	55	49	45	53	47	43	39	33	30	27	19	17	16	6	6	5	0												
4	57	49	42	38	49	42	37	33	29	26	23	17	15	14	5	5	4	0												
5	52	43	37	32	44	37	32	28	25	22	20	15	13	12	5	4	4	0												
6	48	38	32	27	41	33	28	24	23	19	17	13	11	10	4	4	3	0												
7	44	34	28	24	38	30	24	20	20	17	15	12	10	9	4	3	3	0												
8	41	31	25	20	35	27	21	18	18	15	13	11	9	8	3	3	2	0												
9	38	28	22	18	32	24	19	16	17	13	11	10	8	7	3	3	2	0												
10	35	25	20	16	30	22	17	14	15	12	10	9	7	6	3	2	2	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°	188.8	2.4	2.1
100°-110°	731.5	9.3	8.1
110°-120°	1262.9	16.0	14.0
120°-130°	1505.3	19.1	16.7
130°-140°	1445.0	18.3	16.1
140°-150°	1204.2	15.3	13.4
150°-160°	870.0	11.0	9.7
160°-170°	507.9	6.4	5.6
170°-180°	164.1	2.1	1.8
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°	2183.2	27.7	24.3
90°-150°	6337.7	80.4	70.4
90°-180°	7880.0	100.0	87.6
0°-180°	7879.7	100.0	87.6

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	6
95°	56	175	158	186	157	66
105°	283	776	746	742	706	301
115°	589	1144	1466	1503	1474	581
125°	886	1359	1832	2083	2106	791
135°	1146	1510	1973	2262	2342	883
145°	1370	1612	1982	2236	2336	857
155°	1545	1662	1916	2084	2164	712
165°	1659	1687	1797	1873	1925	468
175°	1715	1707	1711	1704	1714	163
180°	1704	1704	1704	1704	1704	



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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°	23	71	58	80	61
95°	56	175	158	186	157
97.5°	98	300	281	317	290
100°	151	459	419	451	425
102.5°	214	616	565	592	559
105°	283	776	746	742	706
107.5°	355	894	937	932	871
110°	431	989	1110	1141	1073
112.5°	513	1072	1291	1332	1285
115°	589	1144	1466	1503	1474
117.5°	663	1202	1604	1678	1647
120°	741	1256	1698	1839	1818
122.5°	815	1313	1770	1983	1977
125°	886	1359	1832	2083	2106
127.5°	956	1399	1888	2145	2209
130°	1020	1438	1936	2193	2269
132.5°	1081	1475	1960	2233	2311
135°	1146	1510	1973	2262	2342
137.5°	1205	1540	1983	2283	2366
140°	1263	1566	1990	2276	2380
142.5°	1320	1591	1990	2257	2365
145°	1370	1612	1982	2236	2336
147.5°	1417	1626	1966	2209	2302
150°	1464	1641	1956	2175	2267
152.5°	1506	1654	1941	2128	2221
155°	1545	1662	1916	2084	2164
157.5°	1580	1670	1888	2040	2109
160°	1610	1675	1858	1984	2053
162.5°	1635	1681	1827	1929	1988
165°	1659	1687	1797	1873	1925
167.5°	1678	1693	1763	1816	1858
170°	1695	1700	1737	1768	1800
172.5°	1708	1706	1721	1726	1748
175°	1715	1707	1711	1704	1714
177.5°	1720	1709	1707	1695	1700
180°	1704	1704	1704	1704	1704

(END OF REPORT)