

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: 46602

Luminaire Tested: **AP-SP-3T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 46602  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AP-SP-3T8  
Description: WHITE PAINTED FABRICATED METAL HOUSING WITH PERFORATED LOWER SURFACE, WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED CENTER STRIP REFLECTOR, SPECULAR METAL SIDE PIECES, TRANSLUCENT PLASTIC LENS OVER LOWER HOUSING, OPEN TOP. CENTER LAMP MOUNTED OBLIQUELY ACROSS WHITE CENTER STRIP.  
Light Source: THREE 32-WATT F32T8/TL835 FLUORESCENTS.  
Ballast/Driver: MOTOROLA M3-IN-T8-GP-A-120  
MOUNTING SUSPENDED  
PAINT REFL 87.2 %  
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
TOTAL INPUT WATTS= 86.3 AT 120.0 VOLTS  
LUMEN TO CANDELA RATIO USED= 9.17

**Summary**

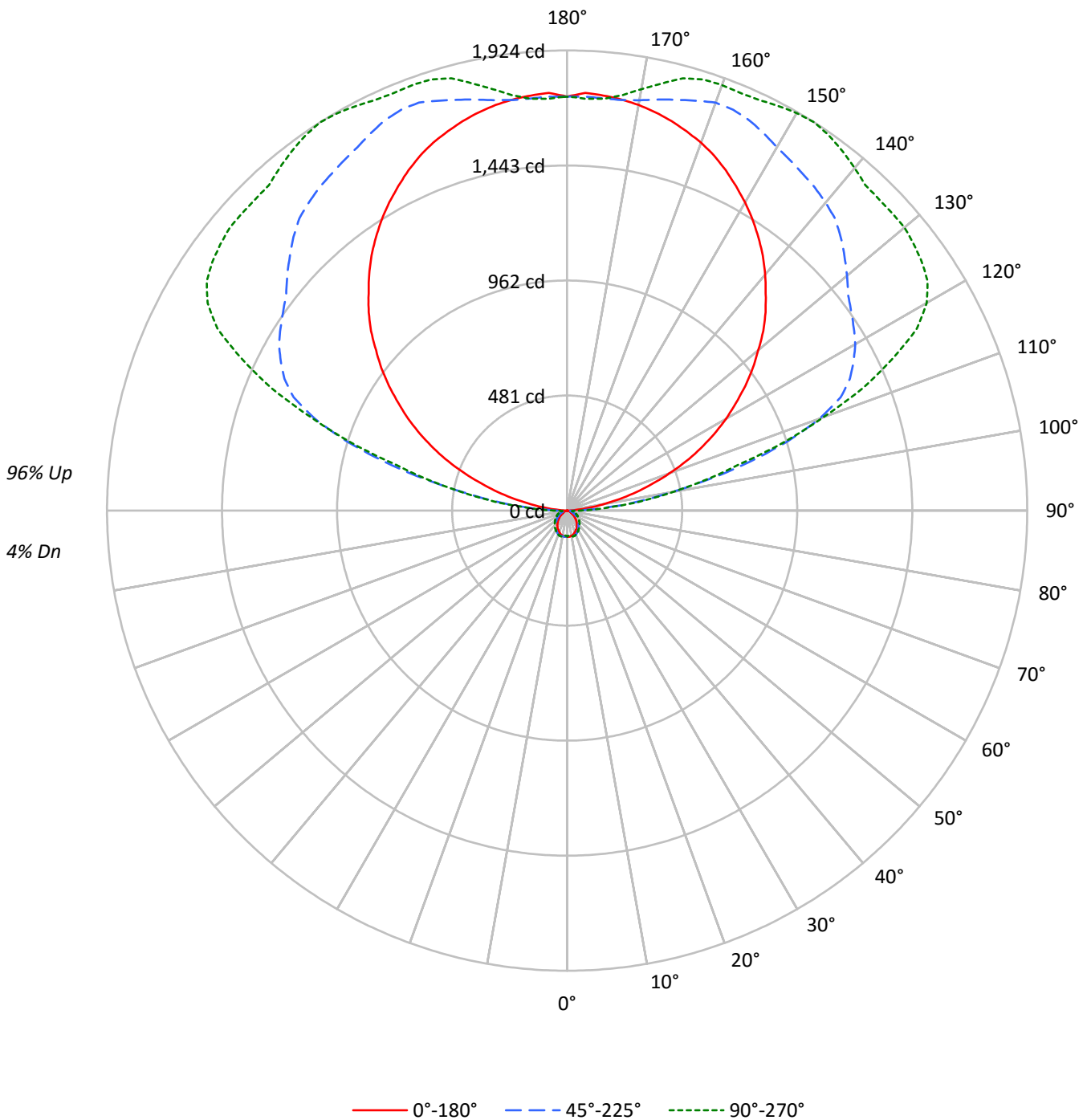
Lumens per Lamp: 3000 (3 lamps)  
Luminaire Lumens: 7473.1 lumens  
Efficiency: 83.0%  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.28 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')  
CIE Type: Indirect

Input Watts (W): 86.3  
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	80	80	80	80	69	69	69	69	48	48	48	29	29	29	12	12	12	3
1	73	69	66	64	62	60	57	55	42	40	39	25	25	24	10	10	10	3
2	66	60	56	52	57	52	48	45	36	34	32	22	21	20	9	8	8	2
3	60	53	47	43	52	46	41	37	32	29	27	20	18	17	8	7	7	2
4	55	47	41	36	47	40	35	32	28	25	23	17	16	14	7	6	6	2
5	50	41	35	31	43	36	31	27	25	22	19	15	14	12	6	6	5	1
6	46	37	31	26	39	32	27	23	22	19	17	14	12	10	6	5	4	1
7	42	33	27	23	36	29	23	20	20	17	14	12	10	9	5	4	4	1
8	39	30	24	20	34	26	21	17	18	15	13	11	9	8	5	4	3	1
9	36	27	21	17	31	23	18	15	17	13	11	10	8	7	4	3	3	1
10	34	24	19	15	29	21	17	13	15	12	10	9	7	6	4	3	3	1

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

	0°	45°	90°
0°	391	391	391
5°	394	387	367
10°	386	378	375
15°	376	377	379
20°	358	371	364
25°	342	350	346
30°	324	332	330
35°	298	308	313
40°	271	281	293
45°	239	258	278
50°	208	239	264
55°	172	219	250
60°	155	198	241
65°	135	180	228
70°	116	160	219
75°	79	142	204
80°	61	128	193
85°	24	118	171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.4	0.1	0.1
10°-20°	30.4	0.4	0.3
20°-30°	45.4	0.6	0.5
30°-40°	52.2	0.7	0.6
40°-50°	50.6	0.7	0.6
50°-60°	43.8	0.6	0.5
60°-70°	34.0	0.5	0.4
70°-80°	23.2	0.3	0.3
80°-90°	17.4	0.2	0.2
90°-100°	216.1	2.9	2.4
100°-110°	735.9	9.8	8.2
110°-120°	1174.9	15.7	13.1
120°-130°	1276.8	17.1	14.2
130°-140°	1214.4	16.3	13.5
140°-150°	1065.4	14.3	11.8
150°-160°	814.6	10.9	9.1
160°-170°	502.0	6.7	5.6
170°-180°	165.6	2.2	1.8
0°-30°	86.1	1.2	1.0
0°-40°	138.4	1.9	1.5
0°-60°	232.8	3.1	2.6
0°-90°	307.4	4.1	3.4
90°-120°	2126.9	28.5	23.6
90°-150°	5683.5	76.1	63.2
90°-180°	7166.0	95.9	79.6
0°-180°	7473.1	100.0	83.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	109	109	109	109	109	
5°	110	110	110	108	105	10
15°	103	104	109	113	111	29
25°	89	95	100	104	101	41
35°	71	81	84	89	88	44
45°	50	61	65	74	73	39
55°	30	42	49	59	59	28
65°	18	26	34	46	46	18
75°	7	14	21	32	33	8
85°	1	8	12	19	20	1
90°	2	15	37	44	57	2
95°	45	186	193	225	204	61
105°	300	673	792	792	745	318
115°	616	934	1304	1506	1501	608
125°	909	1178	1450	1720	1811	812
135°	1173	1383	1618	1766	1842	903
145°	1394	1570	1718	1869	1912	872
155°	1570	1654	1801	1860	1895	723
165°	1686	1696	1778	1836	1871	476
175°	1742	1733	1730	1722	1728	166
180°	1731	1731	1731	1731	1731	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	109	109	109	109	109
2.5°	110	110	110	108	105
5°	110	110	110	108	105
7.5°	108	109	109	108	106
10°	107	108	109	110	109
12.5°	105	106	109	112	111
15°	103	104	109	113	111
17.5°	99	102	108	112	109
20°	96	100	107	110	107
22.5°	92	97	104	107	104
25°	89	95	100	104	101
27.5°	85	92	96	101	98
30°	81	89	93	98	95
32.5°	76	86	88	94	91
35°	71	81	84	89	88
37.5°	66	77	79	86	84
40°	61	72	74	82	80
42.5°	56	67	70	78	77
45°	50	61	65	74	73
47.5°	45	56	61	70	69
50°	40	51	57	66	66
52.5°	35	47	53	63	63
55°	30	42	49	59	59
57.5°	27	38	45	56	56
60°	24	34	41	52	53
62.5°	20	30	37	49	49
65°	18	26	34	46	46
67.5°	15	22	30	42	43
70°	13	19	27	39	40
72.5°	10	16	24	35	36
75°	7	14	21	32	33
77.5°	5	12	19	28	30
80°	4	11	16	26	27
82.5°	2	10	14	22	23
85°	1	8	12	19	20
87.5°	1	7	13	17	25
90°	2	15	37	44	57
92.5°	9	87	90	122	109
95°	45	186	193	225	204
97.5°	96	322	312	344	327
100°	155	464	440	471	448
102.5°	225	585	610	614	592
105°	300	673	792	792	745
107.5°	375	743	969	997	950
110°	455	801	1123	1190	1139



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	538	862	1238	1362	1339
115°	616	934	1304	1506	1501
117.5°	692	1003	1350	1608	1649
120°	767	1067	1391	1661	1736
122.5°	836	1124	1421	1695	1787
125°	909	1178	1450	1720	1811
127.5°	979	1229	1481	1738	1828
130°	1043	1279	1528	1747	1841
132.5°	1112	1328	1573	1755	1842
135°	1173	1383	1618	1766	1842
137.5°	1229	1438	1657	1797	1846
140°	1288	1488	1681	1826	1870
142.5°	1344	1533	1702	1853	1893
145°	1394	1570	1718	1869	1912
147.5°	1443	1599	1736	1870	1924
150°	1488	1620	1754	1866	1919
152.5°	1529	1638	1779	1861	1908
155°	1570	1654	1801	1860	1895
157.5°	1606	1669	1814	1867	1890
160°	1637	1680	1815	1873	1893
162.5°	1662	1688	1797	1863	1890
165°	1686	1696	1778	1836	1871
167.5°	1706	1707	1760	1800	1829
170°	1722	1718	1742	1764	1789
172.5°	1734	1727	1731	1733	1751
175°	1742	1733	1730	1722	1728
177.5°	1748	1737	1732	1722	1724
180°	1731	1731	1731	1731	1731

(END OF REPORT)