

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: 46635

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 46635
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-WP-3T8
Description: WHITE PAINTED FABRICATED METAL HOUSING WITH PERFORATED DOWNLIGHT APERTURES, WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED CENTER REFLECTOR STRIP, THIN TRANSLUCENT PLASTIC SHEET OVER DOWNLIGHT APERTURES, 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= 86.1 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

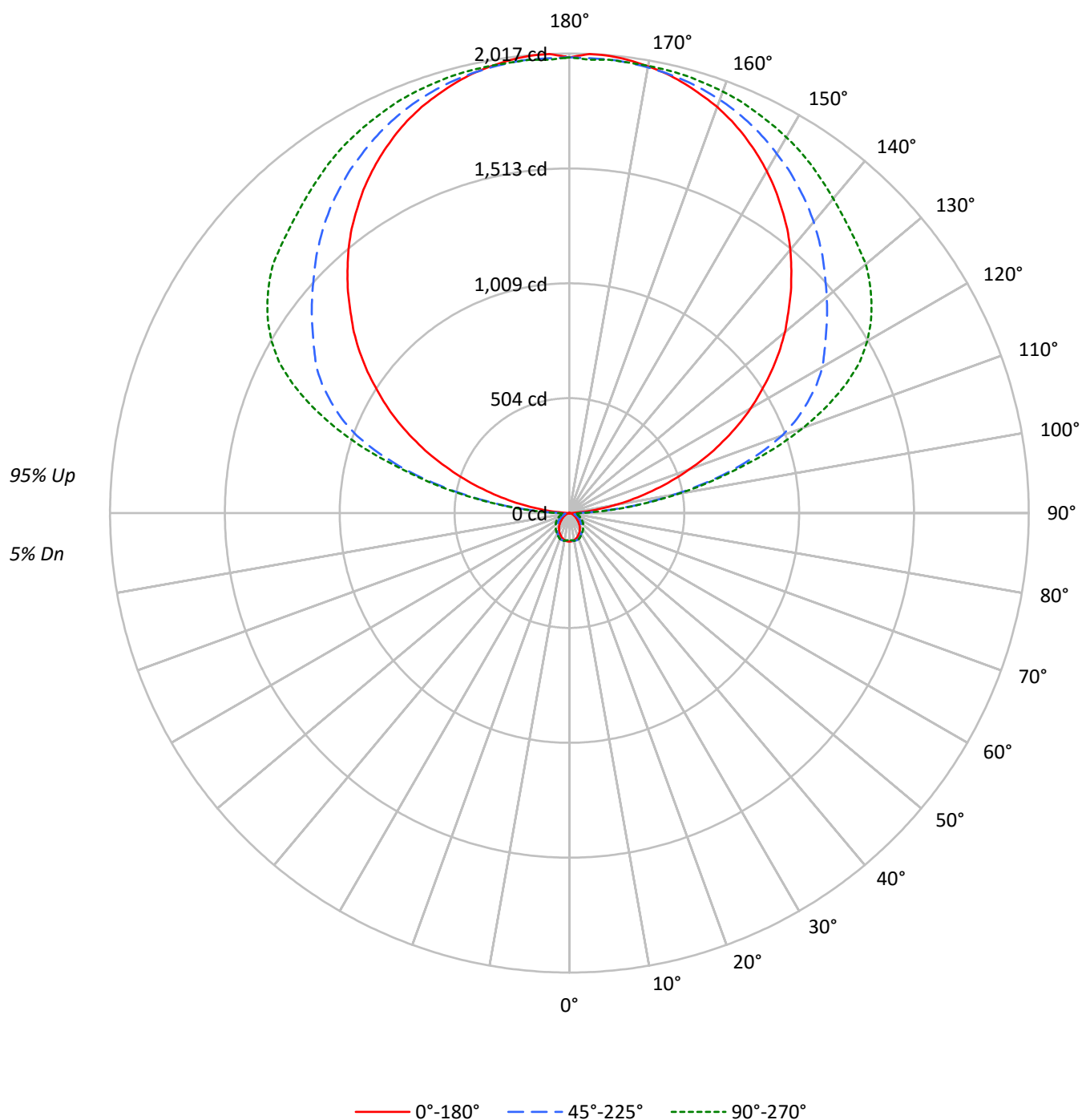
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7554.3 lumens
Efficiency: 83.9%
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.28 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 86.1
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
RCR																	
0	81	81	81	81	70	70	70	70	49	49	49	30	30	30	12	12	12
1	74	70	67	64	63	60	58	56	42	41	40	26	25	24	11	10	10
2	67	61	56	52	57	53	49	46	37	35	33	23	21	20	9	9	8
3	61	54	48	43	52	46	42	38	33	30	27	20	18	17	8	8	7
4	56	47	41	36	48	41	36	32	29	26	23	18	16	14	7	7	6
5	51	42	36	31	44	36	31	27	26	22	20	16	14	12	6	6	5
6	47	37	31	26	40	32	27	23	23	19	17	14	12	11	6	5	5
7	43	33	27	23	37	29	24	20	21	17	15	13	11	9	5	5	4
8	40	30	24	20	34	26	21	18	19	15	13	11	10	8	5	4	3
9	37	27	21	17	31	24	19	15	17	14	11	10	9	7	4	4	3
10	34	25	19	15	29	21	17	14	15	12	10	10	8	6	4	3	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	445	445	445
5°	444	439	420
10°	436	427	427
15°	424	428	426
20°	403	416	412
25°	385	396	391
30°	364	371	375
35°	336	344	355
40°	303	315	340
45°	267	293	327
50°	234	276	316
55°	201	259	305
60°	175	237	296
65°	157	212	282
70°	134	196	268
75°	112	176	259
80°	76	168	243
85°	48	157	231



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.8	0.2	0.1
10°-20°	34.4	0.5	0.4
20°-30°	51.1	0.7	0.6
30°-40°	58.8	0.8	0.7
40°-50°	57.9	0.8	0.6
50°-60°	51.4	0.7	0.6
60°-70°	40.7	0.5	0.5
70°-80°	28.8	0.4	0.3
80°-90°	20.5	0.3	0.2
90°-100°	228.5	3.0	2.5
100°-110°	725.2	9.6	8.1
110°-120°	1090.4	14.4	12.1
120°-130°	1227.4	16.2	13.6
130°-140°	1215.5	16.1	13.5
140°-150°	1096.5	14.5	12.2
150°-160°	869.2	11.5	9.7
160°-170°	555.8	7.4	6.2
170°-180°	190.5	2.5	2.1
0°-30°	97.2	1.3	1.1
0°-40°	156.0	2.1	1.7
0°-60°	265.3	3.5	2.9
0°-90°	355.2	4.7	3.9
90°-120°	2044.1	27.1	22.7
90°-150°	5583.6	73.9	62.0
90°-180°	7199.0	95.3	80.0
0°-180°	7554.3	100.0	83.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	124	124	124	124	124	
5°	124	125	125	123	120	12
15°	116	118	124	127	125	33
25°	100	107	113	117	114	46
35°	80	91	94	102	100	50
45°	56	69	74	86	86	43
55°	35	48	58	71	72	32
65°	21	29	40	55	57	21
75°	10	17	26	40	42	10
85°	2	11	16	26	27	2
90°	0	11	30	39	49	2
95°	60	200	205	248	220	80
105°	376	619	752	808	779	400
115°	743	912	1155	1323	1340	735
125°	1082	1198	1376	1565	1619	966
135°	1375	1457	1575	1700	1748	1060
145°	1627	1676	1750	1831	1858	1018
155°	1823	1844	1883	1924	1941	840
165°	1952	1954	1965	1977	1987	551
175°	2015	2004	1999	1992	1997	191
180°	2000	2000	2000	2000	2000	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	124	124	124	124	124
2.5°	125	125	125	123	120
5°	124	125	125	123	120
7.5°	123	124	123	123	121
10°	121	122	123	124	124
12.5°	119	121	123	126	125
15°	116	118	124	127	125
17.5°	112	115	122	126	123
20°	108	113	120	124	121
22.5°	104	110	116	121	118
25°	100	107	113	117	114
27.5°	95	104	108	113	111
30°	91	100	104	110	108
32.5°	85	96	99	106	104
35°	80	91	94	102	100
37.5°	74	85	89	97	96
40°	68	80	83	93	93
42.5°	62	74	79	89	90
45°	56	69	74	86	86
47.5°	50	63	70	82	82
50°	45	58	66	78	79
52.5°	40	53	62	74	75
55°	35	48	58	71	72
57.5°	31	43	53	67	68
60°	27	38	49	63	65
62.5°	24	34	45	59	61
65°	21	29	40	55	57
67.5°	18	26	37	51	53
70°	15	22	33	47	49
72.5°	12	19	29	43	46
75°	10	17	26	40	42
77.5°	7	15	24	36	38
80°	5	13	21	32	34
82.5°	3	12	19	29	31
85°	2	11	16	26	27
87.5°	1	9	15	23	26
90°	0	11	30	39	49
92.5°	10	95	88	127	103
95°	60	200	205	248	220
97.5°	127	320	332	375	345
100°	205	433	471	520	485
102.5°	289	532	611	667	631
105°	376	619	752	808	779
107.5°	470	696	878	960	944
110°	559	767	994	1102	1091



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	655	835	1082	1221	1223
115°	743	912	1155	1323	1340
117.5°	834	989	1224	1400	1438
120°	919	1059	1283	1462	1510
122.5°	1000	1130	1328	1517	1570
125°	1082	1198	1376	1565	1619
127.5°	1160	1268	1426	1606	1662
130°	1235	1331	1475	1635	1699
132.5°	1303	1395	1523	1668	1723
135°	1375	1457	1575	1700	1748
137.5°	1442	1513	1622	1733	1774
140°	1509	1572	1668	1768	1802
142.5°	1571	1626	1712	1805	1830
145°	1627	1676	1750	1831	1858
147.5°	1683	1725	1789	1860	1884
150°	1733	1767	1821	1882	1905
152.5°	1780	1807	1854	1904	1924
155°	1823	1844	1883	1924	1941
157.5°	1863	1877	1909	1942	1958
160°	1897	1906	1931	1958	1969
162.5°	1925	1932	1949	1967	1978
165°	1952	1954	1965	1977	1987
167.5°	1975	1973	1977	1984	1991
170°	1991	1985	1986	1986	1993
172.5°	2005	1997	1994	1989	1994
175°	2015	2004	1999	1992	1997
177.5°	2017	2005	1998	1989	1992
180°	2000	2000	2000	2000	2000

(END OF REPORT)