

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: 46636

Luminaire Tested: **AP-WP-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 46636
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-WP-2T8
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 INSIDE OF DOWNLIGHT APERTURES. OPEN TOP.
Light Source: TWO 32-WATT F32T8/TL835 FLUORESCENTS.
Ballast/Driver: MOTOROLA M2-IN-T8-GP-D-120
MOUNTING SUSPENDED
PAINT REFL 87.0 %
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
TOTAL INPUT WATTS= 57.1 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

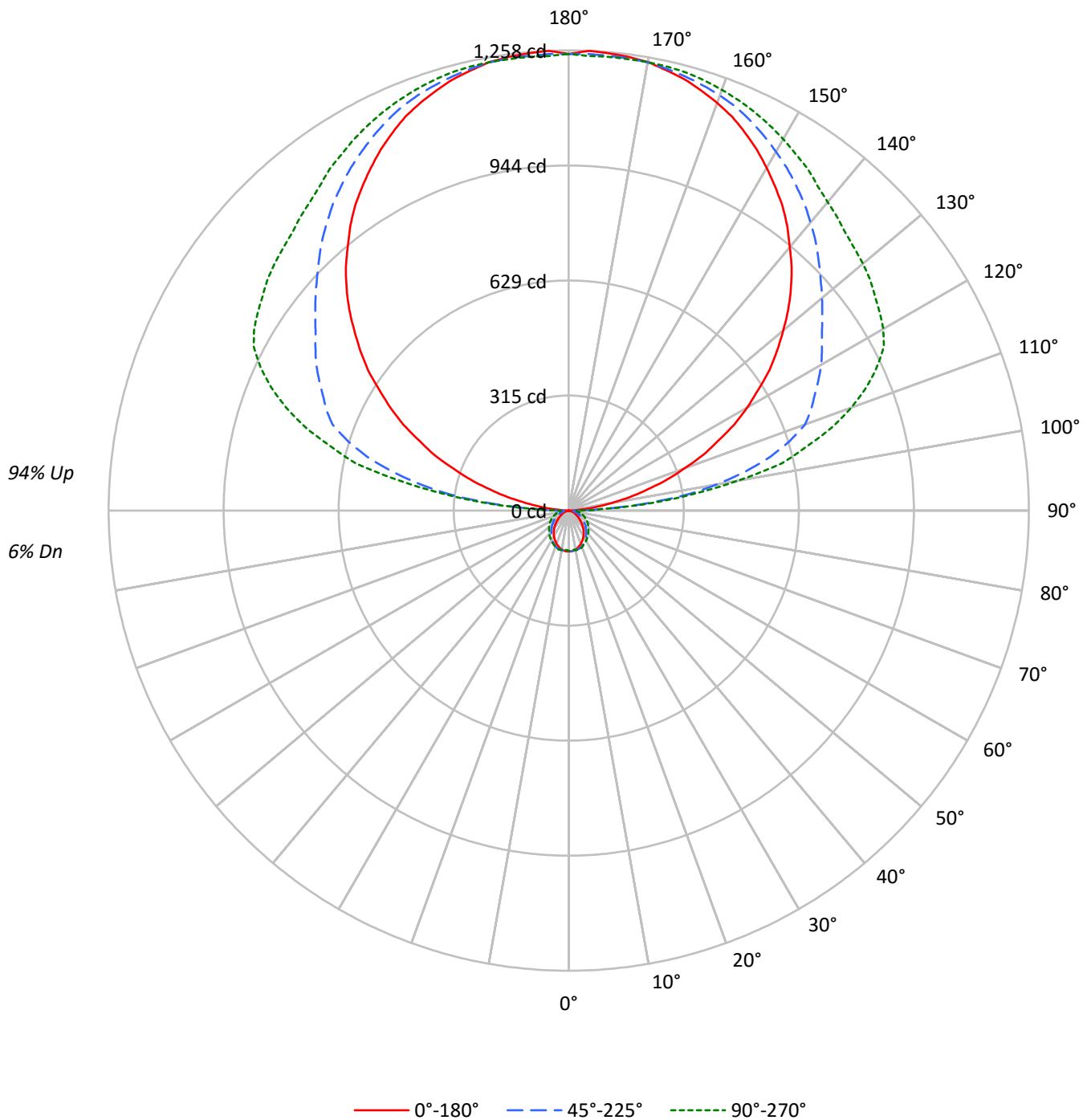
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 4961.2 lumens
Efficiency: 82.7%
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.27 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 57.1
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	80	80	80	80	69	69	69	69	49	49	49	30	30	30	13	13	13
1	73	69	66	64	63	60	58	55	42	41	40	26	26	25	11	11	11
2	66	60	56	52	57	52	48	45	37	35	33	23	22	21	10	10	9
3	60	53	47	43	52	46	41	38	33	30	27	20	19	17	9	8	8
4	55	47	41	36	47	40	36	32	29	26	23	18	16	15	8	7	7
5	50	41	35	31	43	36	31	27	26	22	20	16	14	13	7	6	6
6	46	37	31	26	40	32	27	23	23	19	17	14	12	11	6	6	5
7	42	33	27	23	36	29	24	20	21	17	15	13	11	9	6	5	4
8	39	30	24	20	34	26	21	17	19	15	13	12	10	8	5	4	4
9	36	27	21	17	31	23	19	15	17	14	11	11	9	7	5	4	3
10	34	24	19	15	29	21	17	13	15	12	10	10	8	6	4	4	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	398	398	398
5°	398	390	378
10°	389	378	379
15°	376	373	375
20°	362	364	361
25°	342	343	343
30°	324	325	330
35°	298	304	316
40°	271	281	300
45°	244	262	289
50°	208	243	280
55°	178	223	271
60°	155	208	259
65°	135	191	252
70°	116	172	241
75°	90	156	229
80°	61	144	214
85°	24	137	205



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.5	0.2	0.2
10°-20°	30.3	0.6	0.5
20°-30°	45.0	0.9	0.7
30°-40°	51.9	1.0	0.9
40°-50°	51.2	1.0	0.9
50°-60°	45.3	0.9	0.8
60°-70°	35.8	0.7	0.6
70°-80°	25.1	0.5	0.4
80°-90°	16.3	0.3	0.3
90°-100°	200.9	4.0	3.3
100°-110°	539.7	10.9	9.0
110°-120°	709.6	14.3	11.8
120°-130°	762.5	15.4	12.7
130°-140°	749.8	15.1	12.5
140°-150°	679.1	13.7	11.3
150°-160°	541.8	10.9	9.0
160°-170°	347.6	7.0	5.8
170°-180°	119.0	2.4	2.0
0°-30°	85.7	1.7	1.4
0°-40°	137.6	2.8	2.3
0°-60°	234.2	4.7	3.9
0°-90°	311.3	6.3	5.2
90°-120°	1450.1	29.2	24.2
90°-150°	3641.5	73.4	60.7
90°-180°	4650.0	93.7	77.5
0°-180°	4961.2	100.0	82.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	111	111	111	111	111	
5°	111	111	111	110	108	11
15°	103	105	108	111	110	29
25°	89	95	98	102	100	41
35°	71	80	83	89	89	45
45°	51	60	66	76	76	39
55°	31	42	50	63	64	28
65°	18	25	36	49	51	18
75°	8	14	23	35	37	8
85°	1	8	14	23	24	1
90°	0	6	17	17	30	1
95°	38	165	197	236	217	47
105°	222	376	571	665	671	238
115°	450	546	741	896	930	447
125°	670	737	845	978	1022	596
135°	859	906	966	1041	1071	662
145°	1018	1052	1084	1126	1140	636
155°	1140	1156	1176	1195	1202	525
165°	1221	1226	1229	1235	1240	345
175°	1255	1252	1248	1243	1245	119
180°	1248	1248	1248	1248	1248	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	111	111	111	111	111
2.5°	112	111	111	110	108
5°	111	111	111	110	108
7.5°	110	110	110	109	108
10°	108	109	109	110	110
12.5°	106	107	109	111	110
15°	103	105	108	111	110
17.5°	100	103	107	110	108
20°	97	100	105	108	106
22.5°	93	98	102	105	103
25°	89	95	98	102	100
27.5°	85	92	95	100	98
30°	81	88	91	96	95
32.5°	77	85	87	93	92
35°	71	80	83	89	89
37.5°	66	75	78	86	86
40°	61	70	74	82	82
42.5°	56	66	70	79	80
45°	51	60	66	76	76
47.5°	45	55	62	72	73
50°	40	51	58	69	70
52.5°	36	46	54	66	67
55°	31	42	50	63	64
57.5°	27	38	47	59	61
60°	24	33	43	56	57
62.5°	21	29	39	52	54
65°	18	25	36	49	51
67.5°	16	22	32	45	47
70°	13	19	29	42	44
72.5°	10	16	26	39	40
75°	8	14	23	35	37
77.5°	5	12	20	32	34
80°	4	10	18	29	30
82.5°	2	9	16	26	27
85°	1	8	14	23	24
87.5°	1	7	13	20	21
90°	0	6	17	17	30
92.5°	8	82	81	114	89
95°	38	165	197	236	217
97.5°	72	238	320	362	342
100°	119	303	410	490	468
102.5°	170	340	496	580	597
105°	222	376	571	665	671
107.5°	282	418	634	738	754
110°	336	457	687	802	822



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	398	500	717	855	881
115°	450	546	741	896	930
117.5°	510	595	769	923	971
120°	563	642	797	941	993
122.5°	614	691	821	959	1008
125°	670	737	845	978	1022
127.5°	718	782	873	995	1038
130°	765	825	904	1007	1050
132.5°	814	867	934	1023	1060
135°	859	906	966	1041	1071
137.5°	902	945	999	1060	1087
140°	940	983	1028	1082	1101
142.5°	981	1019	1058	1105	1118
145°	1018	1052	1084	1126	1140
147.5°	1050	1079	1110	1144	1155
150°	1082	1106	1133	1162	1173
152.5°	1113	1132	1155	1179	1188
155°	1140	1156	1176	1195	1202
157.5°	1166	1179	1194	1208	1214
160°	1186	1197	1208	1220	1224
162.5°	1204	1211	1219	1228	1233
165°	1221	1226	1229	1235	1240
167.5°	1233	1236	1237	1238	1243
170°	1245	1244	1244	1242	1245
172.5°	1251	1249	1247	1243	1245
175°	1255	1252	1248	1243	1245
177.5°	1258	1254	1249	1242	1244
180°	1248	1248	1248	1248	1248

(END OF REPORT)