

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: [46601

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: [46601
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AP-SP-2T8
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 SURFACE, 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= 56.7 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.17

Summary

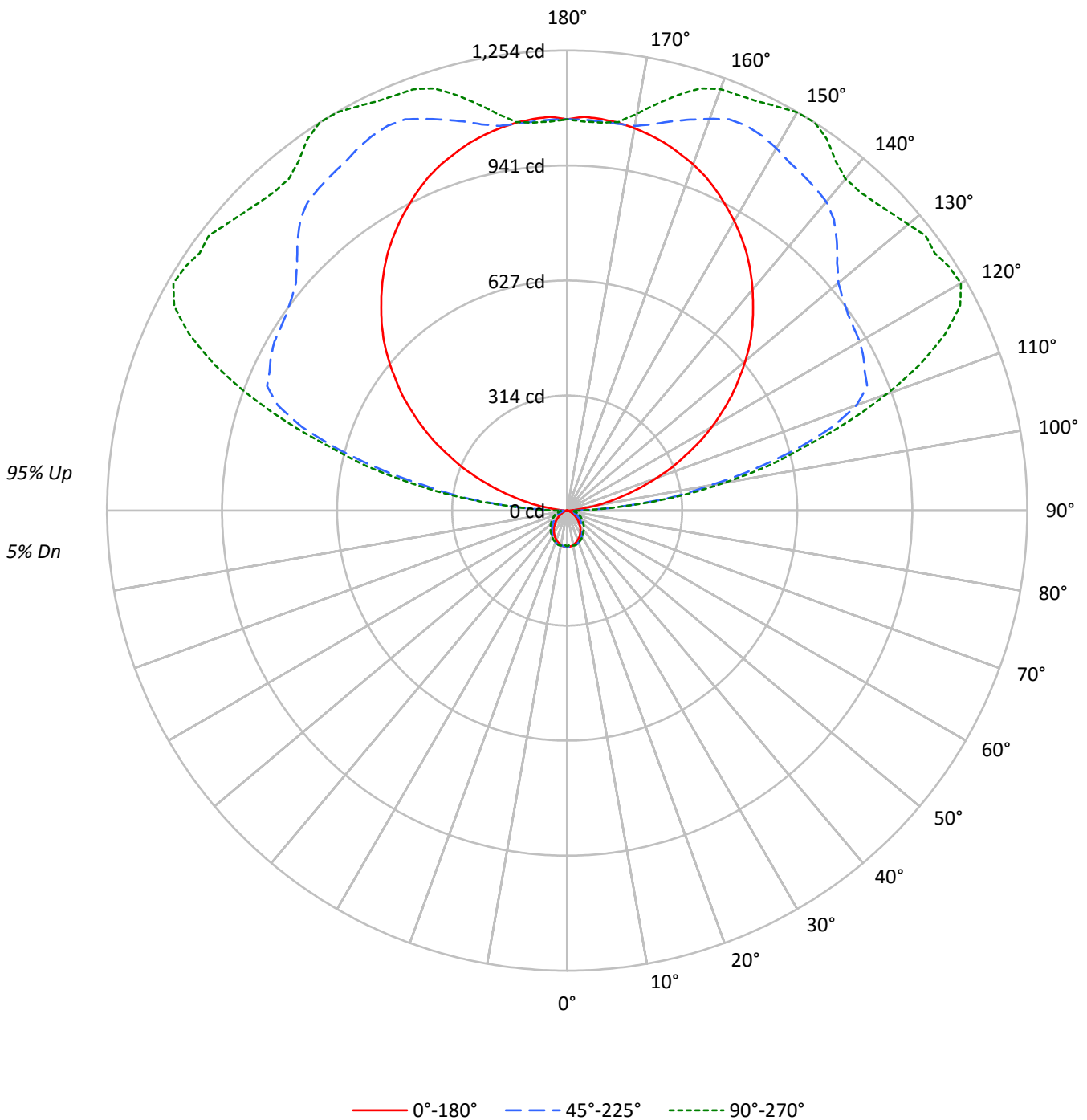
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5071.8 lumens
Efficiency: 84.5%
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 56.7
Input Voltage (V): NR
Input Current (A_{in}): 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	82	82	82	82	70	70	70	70	49	49	49	30	30	30	13	13	13	4
1	74	71	68	65	64	61	59	56	43	41	40	26	26	25	11	11	10	4
2	67	62	57	53	58	53	49	46	38	35	33	23	22	21	10	9	9	3
3	61	54	48	44	53	47	42	38	33	30	28	20	19	17	9	8	7	3
4	56	48	41	37	48	41	36	32	29	26	23	18	16	15	8	7	6	2
5	51	42	36	31	44	37	31	27	26	23	20	16	14	13	7	6	5	2
6	47	38	31	27	40	33	27	24	23	20	17	14	12	11	6	5	5	2
7	43	34	27	23	37	29	24	20	21	17	15	13	11	9	6	5	4	1
8	40	30	24	20	34	26	21	18	19	15	13	12	10	8	5	4	4	1
9	37	27	22	18	32	24	19	16	17	14	11	11	9	7	5	4	3	1
10	34	25	19	16	30	22	17	14	16	12	10	10	8	6	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	348	348	348
5°	351	341	332
10°	342	333	334
15°	332	332	327
20°	317	319	317
25°	304	301	302
30°	288	285	285
35°	264	264	270
40°	240	243	256
45°	215	222	244
50°	187	205	232
55°	161	192	220
60°	136	169	209
65°	112	154	203
70°	98	136	192
75°	79	122	179
80°	46	112	164
85°	24	108	154



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.2	0.2	0.2
10°-20°	26.7	0.5	0.4
20°-30°	39.4	0.8	0.7
30°-40°	45.2	0.9	0.8
40°-50°	43.8	0.9	0.7
50°-60°	38.2	0.8	0.6
60°-70°	29.1	0.6	0.5
70°-80°	19.7	0.4	0.3
80°-90°	12.1	0.2	0.2
90°-100°	189.3	3.7	3.2
100°-110°	576.3	11.4	9.6
110°-120°	818.4	16.1	13.6
120°-130°	835.7	16.5	13.9
130°-140°	776.5	15.3	12.9
140°-150°	682.0	13.4	11.4
150°-160°	517.2	10.2	8.6
160°-170°	311.4	6.1	5.2
170°-180°	101.7	2.0	1.7
0°-30°	75.3	1.5	1.3
0°-40°	120.5	2.4	2.0
0°-60°	202.5	4.0	3.4
0°-90°	263.4	5.2	4.4
90°-120°	1584.0	31.2	26.4
90°-150°	3878.2	76.5	64.6
90°-180°	4808.0	94.8	80.1
0°-180°	5071.8	100.0	84.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	97	97	97	97	97	
5°	98	98	97	97	95	9
15°	91	92	96	98	96	26
25°	79	83	86	89	88	36
35°	63	70	72	77	76	40
45°	45	52	56	64	64	35
55°	28	36	43	52	52	25
65°	15	21	29	39	41	15
75°	7	11	18	27	29	7
85°	1	6	11	17	18	1
90°	1	6	15	11	20	1
95°	22	158	178	216	186	30
105°	164	434	646	699	668	175
115°	356	579	895	1117	1136	354
125°	548	757	934	1158	1223	488
135°	714	892	1039	1129	1187	550
145°	854	989	1118	1221	1235	533
155°	962	1017	1157	1207	1230	443
165°	1036	1041	1098	1143	1173	292
175°	1071	1069	1064	1058	1061	102
180°	1066	1066	1066	1066	1066	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	97	97	97	97	97
2.5°	98	98	98	97	95
5°	98	98	97	97	95
7.5°	97	97	97	96	95
10°	95	96	96	97	97
12.5°	93	94	96	98	97
15°	91	92	96	98	96
17.5°	88	90	94	97	95
20°	85	88	92	95	93
22.5°	82	86	89	92	90
25°	79	83	86	89	88
27.5°	75	81	83	87	85
30°	72	78	80	84	82
32.5°	68	74	76	81	79
35°	63	70	72	77	76
37.5°	59	66	68	74	73
40°	54	61	64	70	70
42.5°	49	57	60	67	67
45°	45	52	56	64	64
47.5°	41	48	53	61	61
50°	36	44	49	57	58
52.5°	32	40	46	55	55
55°	28	36	43	52	52
57.5°	24	33	39	49	49
60°	21	29	35	46	46
62.5°	18	25	32	42	43
65°	15	21	29	39	41
67.5°	13	18	26	36	38
70°	11	15	23	33	35
72.5°	9	13	20	31	32
75°	7	11	18	27	29
77.5°	5	9	15	25	26
80°	3	8	14	22	23
82.5°	2	7	12	19	20
85°	1	6	11	17	18
87.5°	0	5	9	14	15
90°	1	6	15	11	20
92.5°	7	78	76	108	84
95°	22	158	178	216	186
97.5°	46	257	296	335	314
100°	81	349	397	458	432
102.5°	121	401	521	564	560
105°	164	434	646	699	668
107.5°	210	468	757	819	800
110°	258	497	839	945	925



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	310	532	885	1044	1041
115°	356	579	895	1117	1136
117.5°	408	631	910	1151	1207
120°	455	682	921	1152	1239
122.5°	501	723	926	1146	1235
125°	548	757	934	1158	1223
127.5°	590	789	947	1145	1231
130°	634	823	965	1137	1213
132.5°	676	859	998	1132	1199
135°	714	892	1039	1129	1187
137.5°	750	924	1076	1138	1179
140°	786	951	1099	1161	1180
142.5°	821	972	1109	1194	1201
145°	854	989	1118	1221	1235
147.5°	883	997	1126	1221	1254
150°	911	1006	1140	1213	1253
152.5°	937	1012	1151	1209	1241
155°	962	1017	1157	1207	1230
157.5°	985	1021	1154	1207	1225
160°	1004	1026	1136	1199	1222
162.5°	1020	1033	1117	1178	1206
165°	1036	1041	1098	1143	1173
167.5°	1048	1050	1078	1108	1136
170°	1058	1058	1064	1078	1098
172.5°	1066	1064	1063	1060	1068
175°	1071	1069	1064	1058	1061
177.5°	1074	1071	1066	1059	1061
180°	1066	1066	1066	1066	1066

(END OF REPORT)