

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 01281

Luminaire Tested: **FLPC-40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 01281
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLPC-40
Description: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR, CLEAR PLASTIC LENS.
Light Source: ONE F40T12/CW FLUORESCENT RATED 3150 LUMENS.
Ballast/Driver: -

Summary

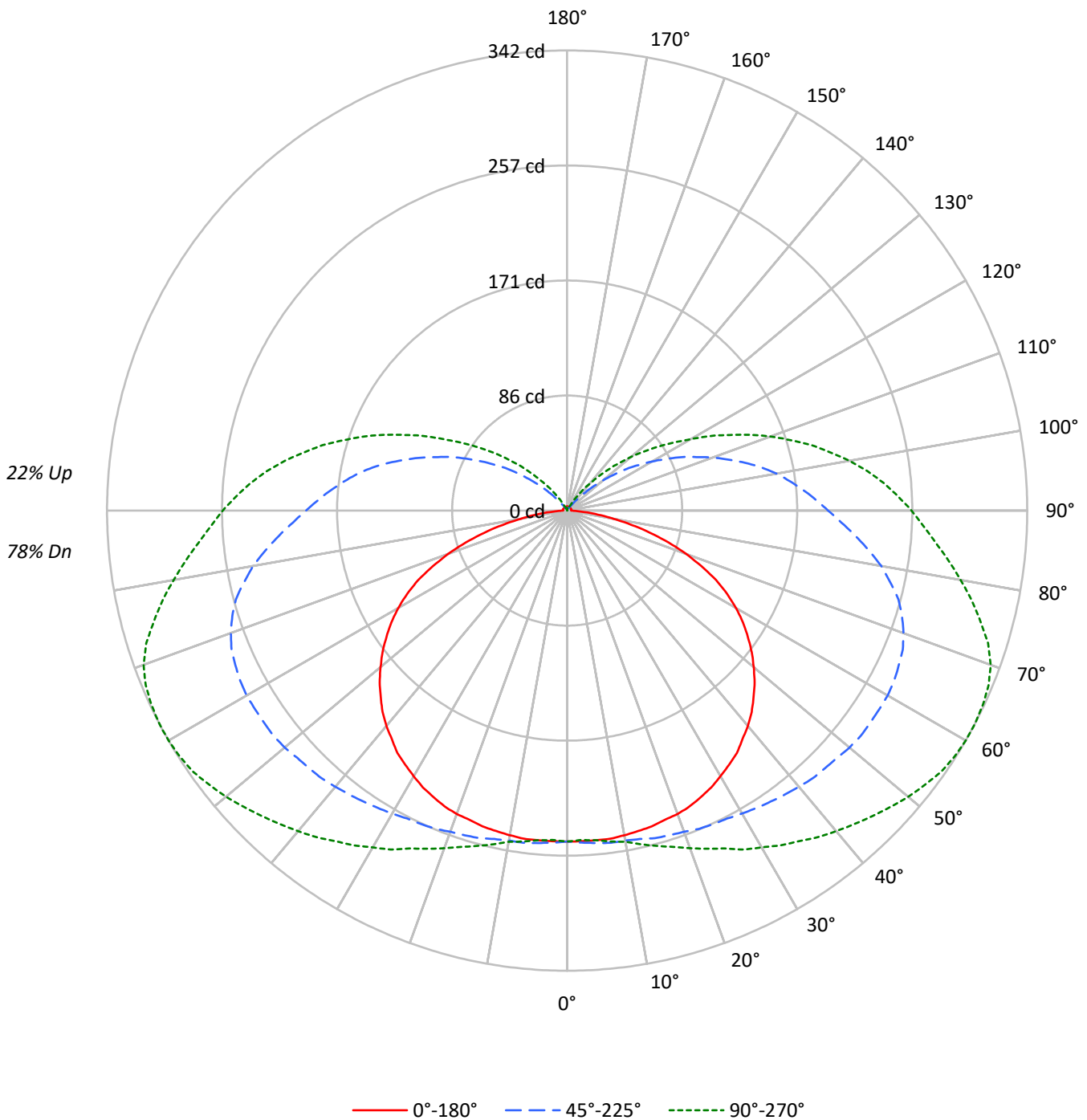
Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 1947.7 lumens
Efficiency: 61.8%
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.88 / 1.87
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 4.19' x H: 0.34')
CIE Type: Semi-Direct

Input Watts (W): 48
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	70	70	70	70	67	67	67	67	61	61	61	56	56	56	51	51	51	48				48
1	61	57	53	50	58	54	51	48	49	46	43	44	42	40	39	38	36				34	
2	54	48	42	38	51	45	40	36	41	37	33	37	33	30	33	30	28				26	
3	49	41	35	30	46	39	33	29	35	30	26	31	27	24	28	25	22				20	
4	44	35	29	24	41	34	28	23	30	25	22	27	23	20	24	21	18				16	
5	40	31	25	20	38	30	24	20	27	22	18	24	20	17	21	18	15				13	
6	37	28	22	17	35	26	21	17	24	19	15	21	17	14	19	16	13				11	
7	34	25	19	15	32	24	18	14	21	17	13	19	15	12	17	14	11				10	
8	31	22	17	13	30	21	16	13	19	15	12	18	14	11	16	12	10				8	
9	29	20	15	11	28	20	14	11	18	13	10	16	12	10	15	11	9				7	
10	27	19	14	10	26	18	13	10	16	12	9	15	11	9	13	10	8				7	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1374	1374	1374
5°	1369	1323	1295
10°	1370	1281	1254
15°	1375	1261	1245
20°	1385	1246	1250
25°	1395	1246	1269
30°	1404	1256	1306
35°	1419	1280	1348
40°	1427	1314	1399
45°	1432	1355	1458
50°	1434	1408	1529
55°	1431	1464	1606
60°	1420	1532	1675
65°	1373	1602	1743
70°	1255	1675	1805
75°	1060	1739	1826
80°	771	1777	1840
85°	432	1806	1865



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	23.7	1.2	0.8	0°	246	246	246	246	246	
10°-20°	71.3	3.7	2.3	5°	246	247	248	247	246	23
20°-30°	119.1	6.1	3.8	15°	243	247	252	256	258	69
30°-40°	164.8	8.5	5.2	25°	235	243	257	272	277	108
40°-50°	205.3	10.5	6.5	35°	220	233	264	292	300	137
50°-60°	236.8	12.2	7.5	45°	196	221	271	310	321	151
60°-70°	252.4	13.0	8.0	55°	164	208	275	323	339	147
70°-80°	240.4	12.3	7.6	65°	122	193	272	325	341	120
80°-90°	203.3	10.4	6.5	75°	64	164	255	303	318	68
90°-100°	165.1	8.5	5.2	85°	13	123	215	261	275	15
100°-110°	123.1	6.3	3.9	90°	3	104	194	242	256	2
110°-120°	78.3	4.0	2.5	95°	3	87	176	224	236	2
120°-130°	41.4	2.1	1.3	105°	3	54	137	179	188	3
130°-140°	16.8	0.9	0.5	115°	3	24	94	128	133	3
140°-150°	4.3	0.2	0.1	125°	3	6	54	80	83	3
150°-160°	0.9	0.0	0.0	135°	3	3	19	39	43	2
160°-170°	0.5	0.0	0.0	145°	3	3	3	11	13	2
170°-180°	0.2	0.0	0.0	155°	3	3	2	1	0	1
0°-30°	214.1	11.0	6.8	165°	3	3	2	0	0	1
0°-40°	378.9	19.5	12.0	175°	3	3	2	0	0	0
0°-60°	821.0	42.2	26.1	180°	2	2	2	2	2	
0°-90°	1517.1	77.9	48.2							
90°-120°	366.5	18.8	11.6							
90°-150°	429.0	22.0	13.6							
90°-180°	431.0	22.1	13.7							
0°-180°	1947.7	100.0	61.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	246	246	246	246	246
2.5°	246	247	247	247	245
5°	246	247	248	247	246
7.5°	246	248	249	250	248
10°	245	247	249	251	250
12.5°	244	247	250	253	254
15°	243	247	252	256	258
17.5°	241	246	253	260	262
20°	240	246	254	264	267
22.5°	238	245	256	268	272
25°	235	243	257	272	277
27.5°	232	241	258	277	284
30°	228	239	260	283	289
32.5°	224	236	262	287	295
35°	220	233	264	292	300
37.5°	214	230	266	297	306
40°	209	228	268	302	311
42.5°	203	224	270	306	316
45°	196	221	271	310	321
47.5°	189	217	272	315	326
50°	181	214	274	318	331
52.5°	173	211	275	320	335
55°	164	208	275	323	339
57.5°	155	204	275	325	341
60°	145	201	275	326	342
62.5°	134	197	274	326	342
65°	122	193	272	325	341
67.5°	108	187	270	322	339
70°	94	180	266	317	335
72.5°	79	173	261	311	328
75°	64	164	255	303	318
77.5°	49	154	246	294	308
80°	35	144	237	283	297
82.5°	23	134	226	272	286
85°	13	123	215	261	275
87.5°	6	113	204	251	265
90°	3	104	194	242	256
92.5°	3	95	185	233	246
95°	3	87	176	224	236
97.5°	3	78	167	214	225
100°	3	70	158	202	213
102.5°	3	62	148	191	200
105°	3	54	137	179	188
107.5°	3	46	126	167	174
110°	3	39	115	154	161



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3	31	104	141	147
115°	3	24	94	128	133
117.5°	3	18	83	114	120
120°	3	13	73	102	106
122.5°	3	9	63	91	94
125°	3	6	54	80	83
127.5°	3	4	44	69	72
130°	3	3	35	58	62
132.5°	3	3	27	48	52
135°	3	3	19	39	43
137.5°	3	3	13	30	34
140°	3	3	8	23	26
142.5°	3	3	5	16	20
145°	3	3	3	11	13
147.5°	3	3	2	6	8
150°	3	3	2	3	3
152.5°	3	3	2	2	1
155°	3	3	2	1	0
157.5°	3	3	2	0	0
160°	3	3	2	0	0
162.5°	3	3	2	0	0
165°	3	3	2	0	0
167.5°	3	3	2	0	0
170°	3	3	2	0	0
172.5°	3	3	2	0	0
175°	3	3	2	0	0
177.5°	3	3	2	0	0
180°	2	2	2	2	2

(END OF REPORT)