

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: 6216.0

Luminaire Tested: **FMW-2/4**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 6216.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMW-2/4
Description: FAIL-SAFE WALL MOUNT SECURITY FIXTURE
.110 THICK PRISM. LENSES
LUM.WATTS=150
Light Source: 4/40 WATT LAMPS F40T12/WW/RS
Ballast/Driver: -

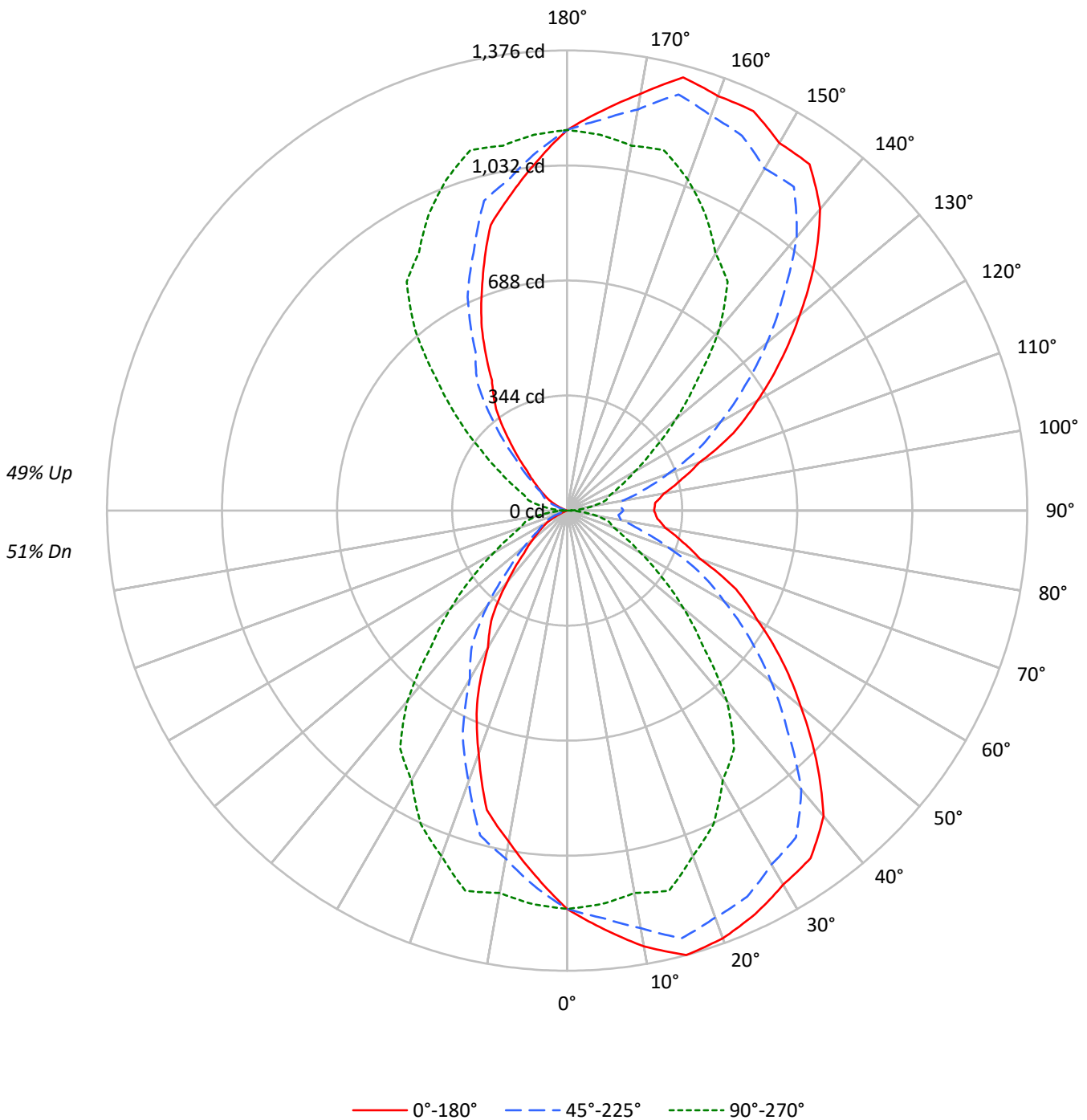
Summary

Lumens per Lamp: 3200 (4 lamps)
Luminaire Lumens: 5328.4 lumens
Efficiency: 41.6%
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.17 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 3.92' x L: 0.25' x H: 0.25')
CIE Type: General Diffuse

Input Watts (W): 150
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	0
RCR																		
0	45	45	45	45	41	41	41	41	35	35	35	29	29	29	24	24	24	21
1	41	39	37	36	38	36	35	33	31	30	29	26	25	24	21	20	20	18
2	37	34	32	30	34	32	30	28	27	25	24	23	21	20	19	18	17	15
3	34	30	27	25	31	28	25	23	24	22	20	20	19	17	17	16	15	13
4	31	27	24	21	29	25	22	20	21	19	17	18	16	15	15	14	13	11
5	29	24	21	18	27	22	19	17	19	17	15	16	15	13	14	12	11	10
6	27	22	18	16	25	20	17	15	17	15	13	15	13	12	12	11	10	9
7	25	20	16	14	23	18	15	13	16	14	12	14	12	10	11	10	9	8
8	23	18	15	12	21	17	14	12	14	12	11	12	11	9	11	9	8	7
9	21	16	13	11	20	15	13	11	13	11	10	11	10	8	10	8	7	6
10	20	15	12	10	18	14	11	10	12	10	9	11	9	8	9	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13091	13091	13091
5°	12744	12959	11110
10°	12553	12814	9536
15°	12350	13169	8320
20°	11672	12564	6629
25°	11009	12190	5277
30°	10396	11397	3814
35°	10015	11175	3094
40°	9308	10119	2169
45°	8184	8402	1438
50°	7116	7215	1030
55°	6196	6024	742
60°	5295	5028	515
65°	4607	4347	199
70°	3628	4047	0
75°	3186	4425	0
80°	2828	4136	0
85°	2740	2990	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	112.0	2.1	0.9	0°	1191	1191	1191	1191	1191	
10°-20°	323.1	6.1	2.5	5°	1256	1223	1181	1127	1095	122
20°-30°	460.8	8.6	3.6	15°	1376	1324	1177	1005	927	386
30°-40°	521.7	9.8	4.1	25°	1331	1274	1035	739	638	614
40°-50°	464.8	8.7	3.6	35°	1269	1193	870	498	392	788
50°-60°	351.2	6.6	2.7	45°	1053	932	575	246	185	813
60°-70°	239.9	4.5	1.9	55°	785	666	343	106	94	703
70°-80°	142.3	2.7	1.1	65°	557	438	190	59	24	544
80°-90°	94.0	1.8	0.7	75°	355	229	129	0	0	378
90°-100°	92.6	1.7	0.7	85°	270	154	41	0	0	228
100°-110°	141.0	2.6	1.1	90°	260	168	0	0	0	144
110°-120°	234.9	4.4	1.8	95°	264	159	35	0	0	227
120°-130°	337.9	6.3	2.6	105°	351	236	120	0	0	374
130°-140°	447.2	8.4	3.5	115°	548	432	177	60	29	538
140°-150°	504.7	9.5	3.9	125°	778	648	312	95	86	698
150°-160°	443.1	8.3	3.5	135°	1046	915	548	217	171	806
160°-170°	310.1	5.8	2.4	145°	1264	1182	836	469	370	780
170°-180°	107.0	2.0	0.8	155°	1318	1237	978	704	604	604
0°-30°	895.9	16.8	7.0	165°	1341	1288	1116	959	884	374
0°-40°	1417.6	26.6	11.1	175°	1200	1173	1128	1074	1047	116
0°-60°	2233.5	41.9	17.4	180°	1138	1138	1138	1138	1138	
0°-90°	2709.7	50.9	21.2							
90°-120°	468.5	8.8	3.7							
90°-150°	1758.5	33.0	13.7							
90°-180°	2619.0	49.2	20.5							
0°-180°	5328.4	100.0	41.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1191	1191	1191	1191	1191	1191	1191	1191	1191
5°	1256	1247	1223	1205	1181	1154	1127	1109	1095
10°	1323	1303	1268	1223	1161	1107	1057	1018	1005
15°	1376	1358	1324	1257	1177	1089	1005	945	927
20°	1361	1343	1295	1215	1099	977	862	803	773
25°	1331	1319	1274	1182	1035	863	739	654	638
30°	1292	1272	1222	1105	931	734	581	501	474
35°	1269	1257	1193	1076	870	644	498	412	392
40°	1193	1164	1089	959	743	509	370	298	278
45°	1053	1032	932	805	575	367	246	194	185
50°	912	881	797	657	454	266	166	141	132
55°	785	750	666	520	343	182	106	98	94
60°	658	630	542	405	254	135	82	67	64
65°	557	516	438	310	190	102	59	37	24
70°	423	396	321	219	148	73	27	0	0
75°	355	320	229	167	129	45	0	0	0
80°	298	256	163	123	89	0	0	0	0
85°	270	225	154	110	41	0	0	0	0
90°	260	223	168	127	0	0	0	0	0
95°	264	227	159	98	35	0	0	0	0
100°	294	256	167	118	79	0	0	0	0
105°	351	317	236	170	120	45	0	0	0
110°	421	389	320	217	137	77	27	0	0
115°	548	508	432	308	177	100	60	36	29
120°	657	616	529	400	233	120	79	63	60
125°	778	742	648	509	312	156	95	90	86
130°	907	867	780	632	423	239	144	127	123
135°	1046	1018	915	773	548	333	217	174	171
140°	1177	1160	1068	923	708	474	337	275	262
145°	1264	1241	1182	1035	836	615	469	390	370
150°	1269	1247	1181	1065	888	698	548	471	450
155°	1318	1295	1237	1124	978	827	704	624	604
160°	1319	1308	1257	1160	1054	919	819	759	738
165°	1341	1333	1288	1208	1116	1032	959	905	884
170°	1265	1245	1218	1172	1108	1055	1005	968	961
175°	1200	1192	1173	1153	1128	1096	1074	1061	1047
180°	1138	1138	1138	1138	1138	1138	1138	1138	1138

(END OF REPORT)