

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: 6741.0

Luminaire Tested: **FUS-D12-240-120-80/89**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 6741.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUS-D12-240-120-80/89
Description: FAIL-SAFE SSE w/ clr. .25 polycarb + prismatic lens
Light Source: 3200 LUMENS
F40T12RS/WW
Ballast/Driver: -

Summary

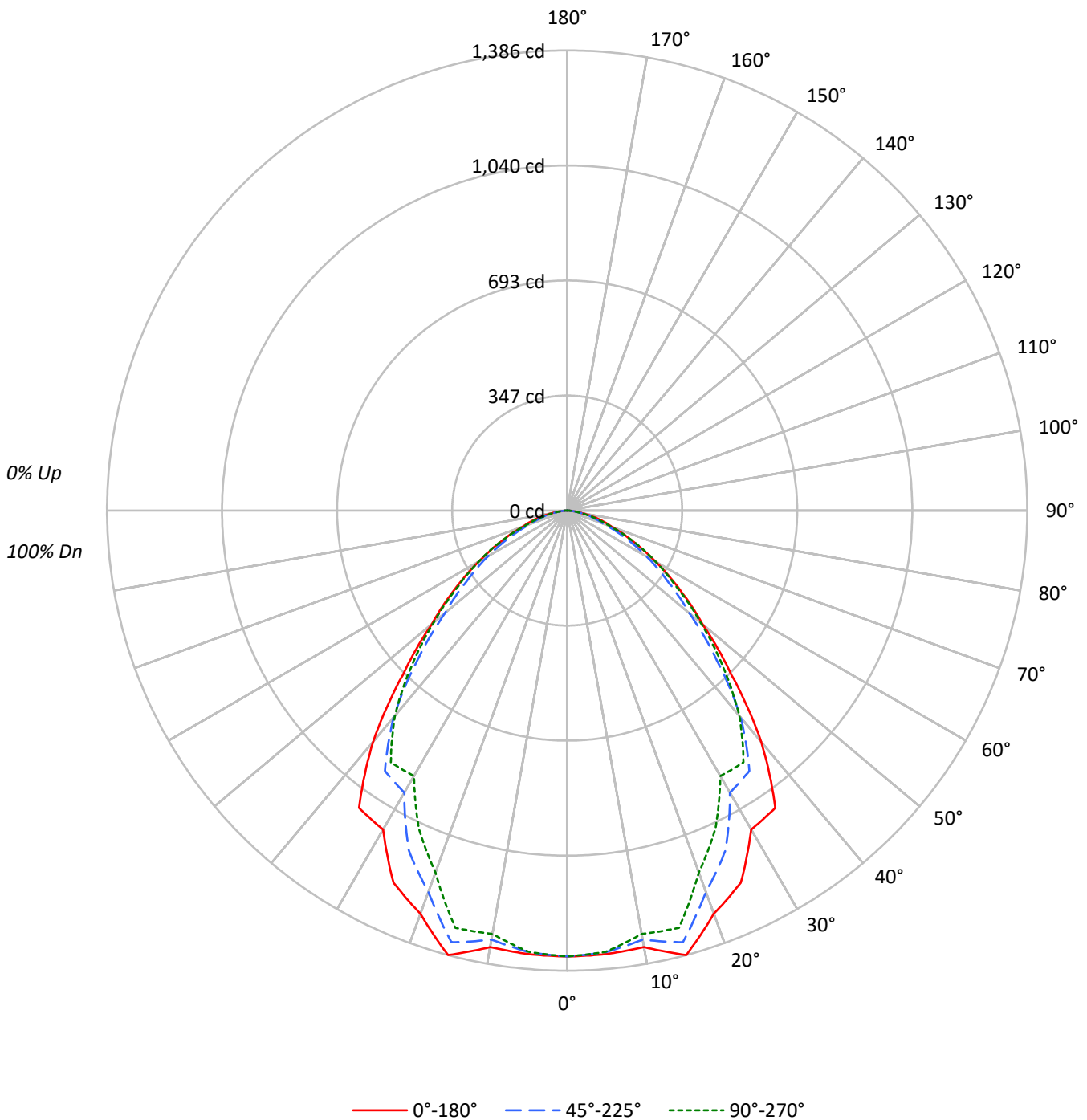
Lumens per Lamp: 3200 (2 lamps)
Luminaire Lumens: 2784.5 lumens
Efficiency: 43.5%
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.06 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.5')
CIE Type: Direct

Input Watts (W): 84
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	52	52	52	52	51	51	51	51	48	48	48	46	46	46	44	44	44	44
1	48	46	45	43	47	45	44	43	44	42	41	42	41	40	40	40	39	38
2	44	41	39	37	43	41	38	36	39	37	35	38	36	35	36	35	34	33
3	41	37	34	31	40	36	33	31	35	33	31	34	32	30	33	31	30	29
4	38	33	30	27	37	33	30	27	32	29	27	31	28	26	30	28	26	25
5	35	30	27	24	34	30	26	24	29	26	24	28	25	23	27	25	23	22
6	33	27	24	21	32	27	24	21	26	23	21	26	23	21	25	23	21	20
7	30	25	22	19	30	25	21	19	24	21	19	23	21	19	23	20	19	18
8	28	23	20	17	28	23	19	17	22	19	17	22	19	17	21	19	17	16
9	27	21	18	16	26	21	18	16	20	18	16	20	17	15	20	17	15	15
10	25	20	16	14	25	19	16	14	19	16	14	19	16	14	18	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3614	3614	3614
5°	3583	3472	3452
10°	3569	3326	3252
15°	3736	3353	3196
20°	3539	3015	2810
25°	3471	2779	2545
30°	3214	2429	2226
35°	3302	2401	2253
40°	2893	2083	1997
45°	2368	1684	1682
50°	1938	1316	1377
55°	1644	1058	1106
60°	1358	841	885
65°	1095	621	676
70°	843	416	451
75°	695	306	312
80°	426	177	162
85°	165	66	60



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	126.9	4.6	2.0	0°	1343	1343	1343	1343	1343	
10°-20°	369.3	13.3	5.8	5°	1341	1346	1335	1340	1334	128
20°-30°	518.3	18.6	8.1	15°	1386	1378	1346	1313	1301	382
30°-40°	594.4	21.3	9.3	25°	1237	1203	1129	1079	1057	562
40°-50°	511.0	18.4	8.0	35°	1093	1033	957	928	926	658
50°-60°	352.3	12.7	5.5	45°	700	667	638	645	663	547
60°-70°	205.1	7.4	3.2	55°	413	392	368	392	404	372
70°-80°	88.8	3.2	1.4	65°	218	206	190	203	220	219
80°-90°	18.3	0.7	0.3	75°	98	86	78	78	86	102
90°-100°	0.0	0.0	0.0	85°	13	13	13	13	13	20
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1014.5	36.4	15.9							
0°-40°	1609.0	57.8	25.1							
0°-60°	2472.3	88.8	38.6							
0°-90°	2784.5	100.0	43.5							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2784.5	100.0	43.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343	1343	1343	1343	1343
5°	1341	1346	1335	1340	1334
10°	1335	1326	1312	1297	1295
15°	1386	1378	1346	1313	1301
20°	1292	1270	1222	1173	1160
25°	1237	1203	1129	1079	1057
30°	1109	1059	981	938	923
35°	1093	1033	957	928	926
40°	910	858	813	803	807
45°	700	667	638	645	663
50°	532	511	480	499	525
55°	413	392	368	392	404
60°	307	290	276	297	307
65°	218	206	190	203	220
70°	144	132	117	124	136
75°	98	86	78	78	86
80°	47	44	40	38	40
85°	13	13	13	13	13
90°	0	0	0	0	0

(END OF REPORT)