

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: 6397.0

Luminaire Tested: **FAS-340-120-80/87 3/8 POLY OVER .125 PRIS.**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 6397.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FAS-340-120-80/87 3/8 POLY OVER .125 PRIS.
Description: 3/40 SURFACE MOUNTED SECURITY FIXTURE
LUM. WATTS = 122
Light Source: 3/40 F40T12RS/WW
90% REFL
Ballast/Driver: -

Summary

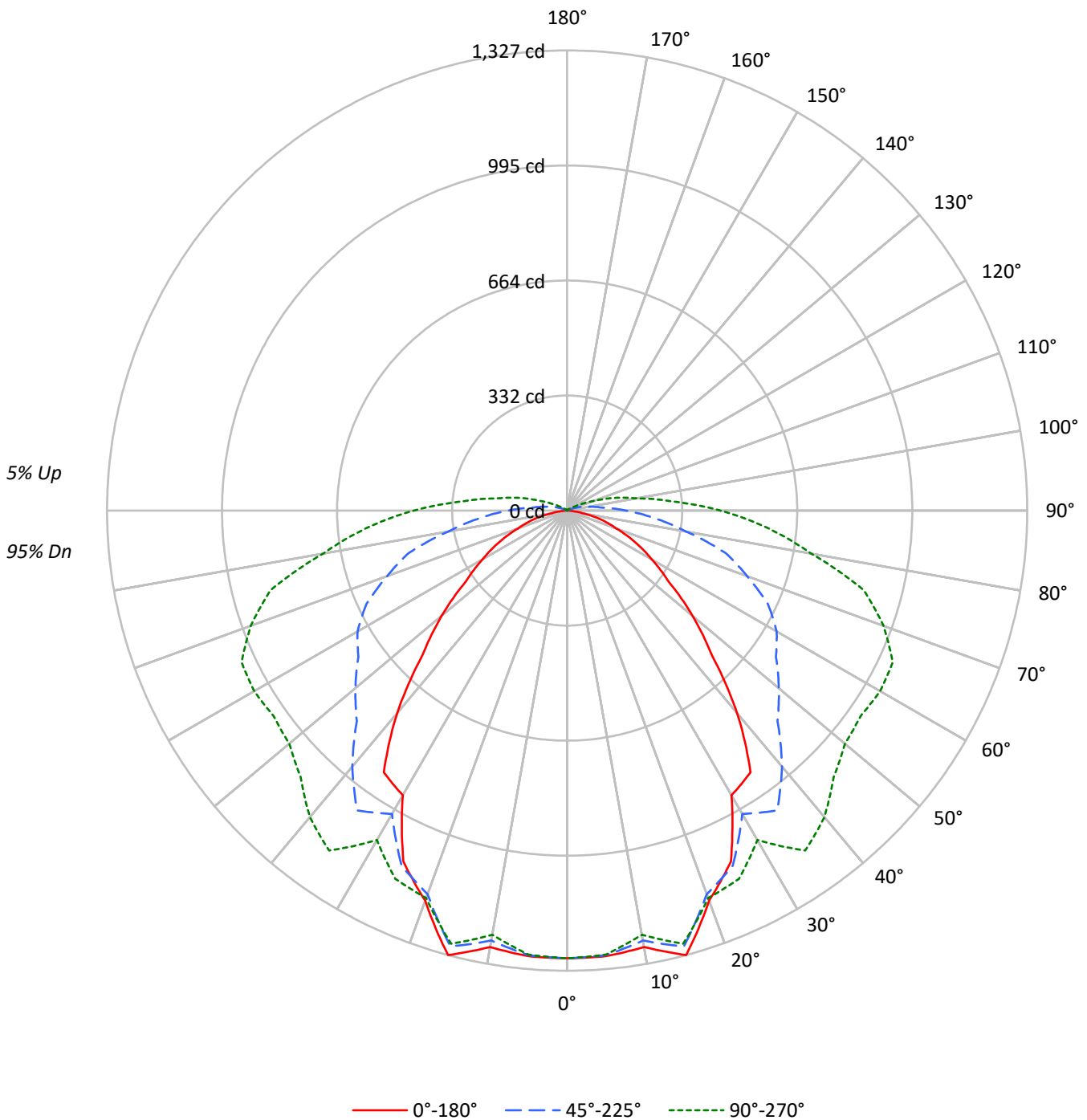
Lumens per Lamp: 3200 (3 lamps)
Luminaire Lumens: 4583.9 lumens
Efficiency: 47.7%
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.42 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')
CIE Type: Direct

Input Watts (W): 122
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	56	56	56	56	55	55	55	55	52	52	52	49	49	49	47	47	47	45																												
1	50	47	45	42	48	46	44	41	43	41	40	41	40	38	39	38	37	35																												
2	45	40	37	33	43	39	36	33	37	34	32	35	33	31	33	31	30	28																												
3	41	35	31	27	39	34	30	27	32	29	26	31	28	25	29	27	25	23																												
4	37	31	26	23	36	30	26	22	29	25	22	27	24	21	26	23	21	20																												
5	34	27	23	19	33	27	22	19	25	22	19	24	21	18	23	20	18	17																												
6	31	25	20	17	30	24	20	17	23	19	16	22	19	16	21	18	16	15																												
7	29	22	18	15	28	22	18	15	21	17	14	20	17	14	19	16	14	13																												
8	27	20	16	13	26	20	16	13	19	15	13	18	15	13	18	15	12	11																												
9	25	19	15	12	24	18	14	12	18	14	12	17	14	11	16	13	11	10																												
10	24	17	13	11	23	17	13	11	16	13	10	16	12	10	15	12	10	9																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5435	5435	5435
5°	5421	5295	5258
10°	5402	5103	4981
15°	5685	5234	5122
20°	5239	4737	4688
25°	5036	4584	4634
30°	4442	4162	4384
35°	4532	4457	4873
40°	3976	4201	4825
45°	3298	3896	4708
50°	2869	3808	4736
55°	2397	3735	4939
60°	2134	3819	5320
65°	1897	3818	5722
70°	1576	3663	5889
75°	1348	3560	6001
80°	832	3061	5546
85°	387	2682	5311



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	121.9	2.7	1.3	0°	1291	1291	1291	1291	1291	
10°-20°	357.2	7.8	3.7	5°	1290	1290	1287	1285	1285	123
20°-30°	515.9	11.3	5.4	15°	1327	1314	1301	1290	1293	363
30°-40°	642.8	14.0	6.7	25°	1117	1117	1130	1151	1172	504
40°-50°	661.8	14.4	6.9	35°	922	960	1056	1157	1197	557
50°-60°	646.6	14.1	6.7	45°	590	662	858	1018	1087	465
60°-70°	617.0	13.5	6.4	55°	357	475	735	961	1033	328
70°-80°	494.2	10.8	5.1	65°	217	325	639	927	1036	214
80°-90°	305.0	6.7	3.2	75°	103	190	473	757	885	107
90°-100°	146.0	3.2	1.5	85°	14	90	253	472	581	19
100°-110°	57.2	1.2	0.6	90°	0	57	169	357	442	2
110°-120°	15.2	0.3	0.2	95°	0	24	99	233	302	0
120°-130°	2.7	0.1	0.0	105°	0	1	41	102	141	0
130°-140°	0.5	0.0	0.0	115°	0	0	7	25	41	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	5	8	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	5	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	994.9	21.7	10.4	165°	0	0	0	0	0	0
0°-40°	1637.8	35.7	17.1	175°	0	0	0	0	0	0
0°-60°	2946.2	64.3	30.7	180°	0	0	0	0	0	0
0°-90°	4362.4	95.2	45.4							
90°-120°	218.3	4.8	2.3							
90°-150°	221.5	4.8	2.3							
90°-180°	221.0	4.8	2.3							
0°-180°	4583.9	100.0	47.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291	1291	1291	1291	1291
5°	1290	1290	1287	1285	1285
10°	1278	1268	1259	1248	1242
15°	1327	1314	1301	1290	1293
20°	1197	1190	1177	1182	1189
25°	1117	1117	1130	1151	1172
30°	948	970	1010	1066	1097
35°	922	960	1056	1157	1197
40°	763	823	964	1107	1154
45°	590	662	858	1018	1087
50°	472	565	797	979	1046
55°	357	475	735	961	1033
60°	282	404	698	948	1042
65°	217	325	639	927	1036
70°	151	246	552	850	971
75°	103	190	473	757	885
80°	47	128	349	588	715
85°	14	90	253	472	581
90°	0	57	169	357	442
95°	0	24	99	233	302
100°	0	8	63	148	203
105°	0	1	41	102	141
110°	0	0	17	56	79
115°	0	0	7	25	41
120°	0	0	4	12	18
125°	0	0	0	5	8
130°	0	0	0	1	7
135°	0	0	0	0	5
140°	0	0	0	0	1
145°	0	0	0	0	0
150°	0	0	0	0	0
155°	0	0	0	0	0
160°	0	0	0	0	0
165°	0	0	0	0	0
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)