

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: 6140.2

Luminaire Tested: **FUS-S16-340**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 6140.2
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUS-S16-340
Description: FAIL-SAFE sloped w/ .375 prismatic laminate lens
Light Source: F40SXL/SPX30 3500 LUMENS
Ballast/Driver: -

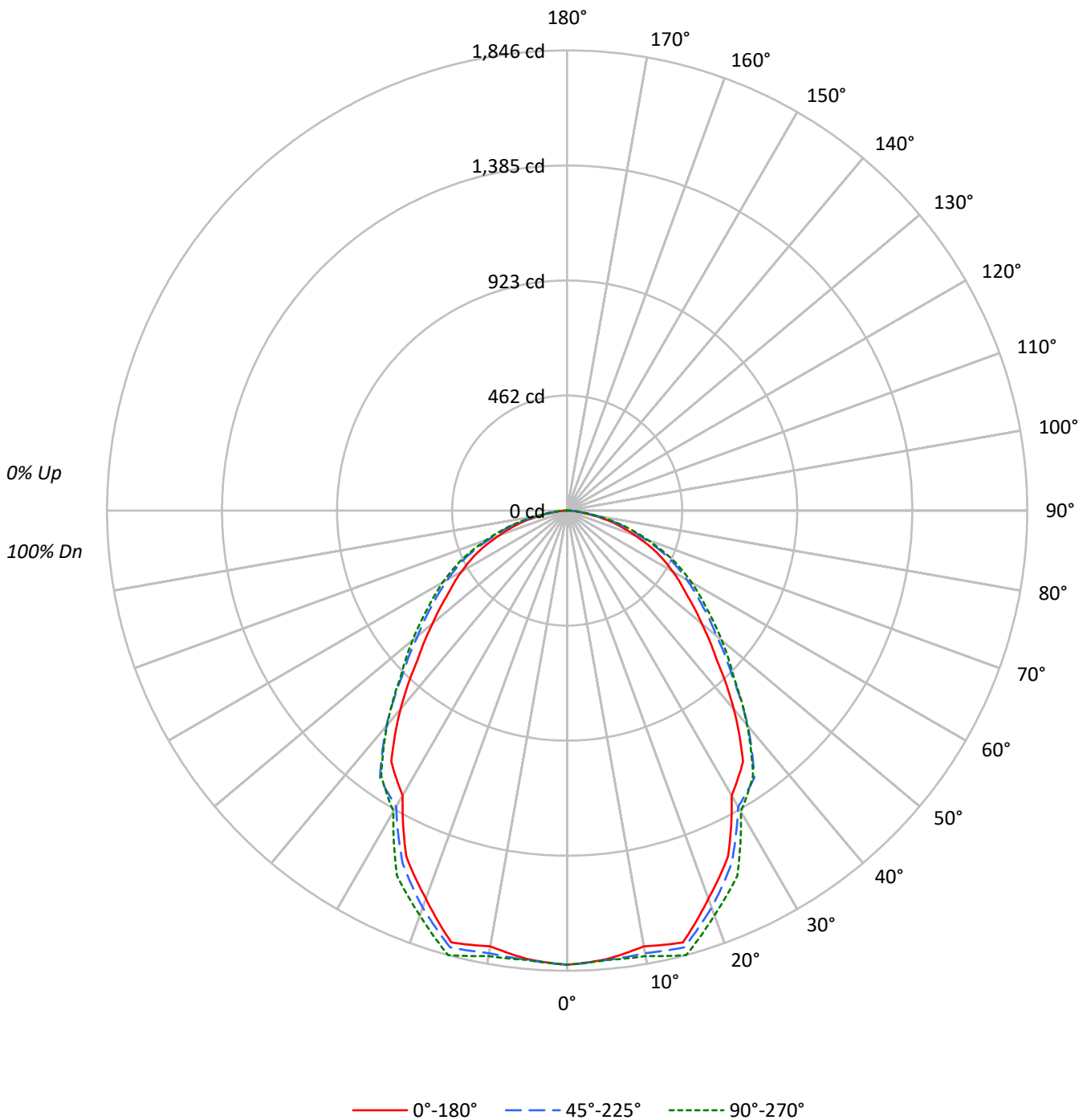
Summary

Lumens per Lamp: 3500 (3 lamps)
Luminaire Lumens: 4187.8 lumens
Efficiency: 39.9%
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.15 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 125
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										
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	0														
RCR																																						
0	47	47	47	47	46	46	46	46	44	44	44	42	42	42	41	41	41	40						40														
1	44	42	40	39	43	41	40	38	39	38	37	38	37	36	36	36	35	34						34														
2	40	37	34	32	39	36	34	32	35	33	31	34	32	30	32	31	30	29						29														
3	37	33	30	27	36	32	29	27	31	29	27	30	28	26	29	27	26	25						25														
4	34	29	26	23	33	29	26	23	28	25	23	27	25	23	26	24	22	22						22														
5	31	26	23	20	30	26	23	20	25	22	20	24	22	20	24	21	20	19						19														
6	29	24	21	18	28	24	20	18	23	20	18	22	20	18	22	19	18	17						17														
7	27	22	18	16	26	21	18	16	21	18	16	20	18	16	20	17	16	15						15														
8	25	20	17	15	25	20	17	14	19	16	14	19	16	14	18	16	14	13						13														
9	24	18	15	13	23	18	15	13	18	15	13	17	15	13	17	15	13	12						12														
10	22	17	14	12	22	17	14	12	16	14	12	16	14	12	16	13	12	11						11														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4903	4903	4903
5°	4881	4889	4889
10°	4850	4927	4959
15°	4998	5054	5143
20°	4745	4854	4948
25°	4540	4635	4798
30°	4102	4263	4332
35°	4041	4300	4271
40°	3653	3959	3948
45°	3231	3558	3596
50°	2947	3278	3387
55°	2740	3096	3200
60°	2637	2982	3100
65°	2515	2872	2980
70°	2266	2581	2691
75°	2038	2329	2443
80°	1472	1705	1798
85°	926	1050	1142



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	172.5	4.1	1.6	0°	1822	1822	1822	1822	1822	
10°-20°	503.8	12.0	4.8	5°	1807	1811	1810	1810	1810	172
20°-30°	713.3	17.0	6.8	15°	1794	1796	1814	1839	1846	496
30°-40°	789.6	18.9	7.5	25°	1529	1539	1561	1604	1616	695
40°-50°	715.4	17.1	6.8	35°	1230	1254	1309	1316	1300	754
50°-60°	583.5	13.9	5.6	45°	849	877	935	952	945	664
60°-70°	432.4	10.3	4.1	55°	584	615	660	680	682	528
70°-80°	229.5	5.5	2.2	65°	395	415	451	464	468	388
80°-90°	47.8	1.1	0.5	75°	196	208	224	232	235	204
90°-100°	0.0	0.0	0.0	85°	30	33	34	35	37	42
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°	1389.6	33.2	13.2							
0°-40°	2179.2	52.0	20.8							
0°-60°	3478.1	83.1	33.1							
0°-90°	4187.8	100.0	39.9							
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°	4187.8	100.0	39.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822	1822	1822	1822	1822
5°	1807	1811	1810	1810	1810
10°	1775	1789	1803	1806	1815
15°	1794	1796	1814	1839	1846
20°	1657	1663	1695	1723	1728
25°	1529	1539	1561	1604	1616
30°	1320	1337	1372	1388	1394
35°	1230	1254	1309	1316	1300
40°	1040	1077	1127	1147	1124
45°	849	877	935	952	945
50°	704	739	783	805	809
55°	584	615	660	680	682
60°	490	515	554	573	576
65°	395	415	451	464	468
70°	288	306	328	341	342
75°	196	208	224	232	235
80°	95	102	110	114	116
85°	30	33	34	35	37
90°	0	0	0	0	0

(END OF REPORT)