XFR

X-SERIES | XM20
FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

- 120 V
- 0-10 V*, Triac and ELV dimming

- 50,000 hours (L70)
- Integrated driver
- RoHs-compliant
- Contain no lead or mercury
- Certified to UL standards for dry locations

- Modular individually specifiable optics
- Modules are field-replaceable for easy maintenance and design changes; no tools needed
- Field- adjustable gimbal rings for hot aiming
- Designed for new construction ceilings only.
- Rated for IC and non-IC use; spray foam rated* option available

- VioLight and *MonoWhite color rendering enhancements available
- *90+ High CRI available
  To order, replace 'K' in CCT designation with 'h' in ordering code

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XFR11

X-SERIES | XM20 | 1-HEAD
FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

- Weight without module: 6.75 lb
- Ceiling Cut-Out: 6 ¼" x 5 ⅓"

Ordering Information — **Example: XFR11/Xm20/25m-25m/30K/1100/WH/WH/SL-SL**

/ / / / / / /

Fixture
XFR11

Module
Xm20

Beam Spread

	CCT / Lumens
COB-optic	
15c	25K* / 1000
25c	27K / 1050
40c	30K / 1100
60c	30m* / 1100
	35K* / 1100
	35m* / 1100
	40K* / 1100
	25K* / 1300
	27K / 1450
	30K / 1500
	30m* / 1500
	35K* / 1500
	35m* / 1500
	40K* / 1500
	25K* / 1800
	27K / 1900
	30K / 2000
	30m* / 2000
	35K* / 2000
	35m* / 2000
	40K* / 2000
Multi-optic	
15m	27K / 1400
25m	30K / 1450
40m	30v / 1450
60m	35K* / 1450
	40K* / 1450
Specialty	
10c	27K / 750
	30K / 750
Dim-to-Warm	*(2700K to 1800K)*
25c	D27 / 1300
40c	

Finish
Die-cast, Powder Coated
WH / WH - *White Module, Interior + Flange*
BK / BK - *Black Module, Interior + Flange*
BK / WH* - *Black Module + Interior, White Flange*
PW / PW* - *Perfect White Module, Interior + Flange*
BK / PW* - *Black Module + Interior, Perfect White Flange*

Options + Accessories

Module Options
SS - *Solite Spread*
HL - *Honeycomb Louver*
SL - *Linear Spread*
SP - *Prismatic Spread*
More Accessories Available

Fixture Options
SFR* - *Spray Foam Rated*
010 - *0-10 V Dimming**

*Consult factory for lead time and availability

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XFR12

X-SERIES | XM20 | 2-HEAD
FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

- Weight without module: 7 lb
- Ceiling Cut-Out: 11" x 5 ⅓"

Ordering Information — **Example: XFR12/Xm20/25c-25c/30K/1100/WH/WH/SL-SL**

1 - 2 / / - / / / / / 1 - 2 -

Fixture
XFR12

Module
Xm20

Beam Spread / **CCT** / **Lumens**

COB-optic
15c
25c
40c
60c

CCT	Lumens
25K*	1000
27K	1050
30K	1100
30m*	1100
35K*	1100
35m*	1100
40K*	1100
25K*	1300
27K	1450
30K	1500
30m*	1500
35K*	1500
35m*	1500
40K*	1500
25K*	1800
27K	1900
30K	2000
30m*	2000
35K*	2000
35m*	2000
40K*	2000

Multi-optic
15m
25m
40m
60m

CCT	Lumens
27K	1400
30K	1450
30v	1450
35K*	1450
40K*	1450

Specialty
10c

CCT	Lumens
27K	750
30K	750

Dim-to-Warm
25c
40c

(2700K to 1800K)
D27 / 1300

Finish
Die-cast, Powder Coated
WH / WH - *White Module, Interior + Flange*
BK / BK - *Black Module, Interior + Flange*
BK / WH* - *Black Module + Interior, White Flange*
PW / PW* - *Perfect White Module, Interior + Flange*
BK / PW* - *Black Module + Interior, Perfect White Flange*

Options + Accessories

Module Options
SS - *Solite Spread*
HL - *Honeycomb Louver*
SL - *Linear Spread*
SP - *Prismatic Spread*
More Accessories Available

Fixture Options
SFR* - *Spray Foam Rated*
010 - *0-10 V Dimming**

*Consult factory for lead time and availability

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XFR13

X-SERIES | XM20 | 3-HEAD
FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

- Weight without module: 8 lb
- Ceiling Cut-Out: 16" x 5 ⅓"

Ordering Information — **Example: XFR13/Xm20/25m-25m-25m/30K/1100/WH/WH/SL-SL-SL**

1 - 2 - 3 / 1 - 2 - 3

/ / - - / / / / / - -

Fixture
XFR13

Module
Xm20

Beam Spread

Beam Spread	CCT / Lumens
COB-optic	
15c	25K* / 1000
25c	27K / 1050
40c	30K / 1100
60c	30m* / 1100
	35K* / 1100
	35m* / 1100
	40K* / 1100
	25K* / 1300
	27K / 1450
	30K / 1500
	30m* / 1500
	35K* / 1500
	35m* / 1500
	40K* / 1500
	25K* / 1800
	27K / 1900
	30K / 2000
	30m* / 2000
	35K* / 2000
	35m* / 2000
	40K* / 2000
Multi-optic	
15m	27K / 1400
25m	30K / 1450
40m	30v / 1450
60m	35K* / 1450
	40K* / 1450
Specialty	
10c	27K / 750
	30K / 750
Dim-to-Warm	*(2700K to 1800K)*
25c	D27 / 1300
40c	

Finish
Die-cast, Powder Coated
WH / WH - *White Module, Interior + Flange*
BK / BK - *Black Module, Interior + Flange*
BK / WH* - *Black Module + Interior, White Flange*
PW / PW* - *Perfect White Module, Interior + Flange*
BK / PW* - *Black Module + Interior, Perfect White Flange*

Options + Accessories

Module Options
SS - *Solite Spread*
HL - *Honeycomb Louver*
SL - *Linear Spread*
SP - *Prismatic Spread*
More Accessories Available

Fixture Options
SFR* - *Spray Foam Rated*
010 - *0-10 V Dimming**

*Consult factory for lead time and availability

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XFR14

X-SERIES | XM20 | 4-HEAD
FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

- Weight without module: 10.8 lb
- Ceiling Cut-Out: 20" x 5 ⅓"

Ordering Information — **Example: XFR14/Xm20/25c-25c-25c-25c/30K/1100/WH/WH/SL-SL-SL-SL**

1 - 2 - 3 - 4 / / - - - / / / / / 1 - 2 - 3 - 4

Fixture
XFR14

Module
Xm20

Beam Spread

COB-optic
15c
25c
40c
60c

Multi-optic
15m
25m
40m
60m

Specialty
10c

Dim-to-Warm
25c
40c

CCT / Lumens

25K* / 1000
27K / 1050
30K / 1100
30m* / 1100
35K* / 1100
35m* / 1100
40K* / 1100

25K* / 1300
27K / 1450
30K / 1500
30m* / 1500
35K* / 1500
35m* / 1500
40K* / 1500

25K* / 1800
27K / 1900
30K / 2000
30m* / 2000
35K* / 2000
35m* / 2000
40K* / 2000

27K / 1400
30K / 1450
30v / 1450
35K* / 1450
40K* / 1450

27K / 750
30K / 750

(2700K to 1800K)
D27 / 1300

Finish

Die-cast, Powder Coated
WH / WH - *White Module, Interior + Flange*
BK / BK - *Black Module, Interior + Flange*
BK / WH* - *Black Module + Interior, White Flange*
PW / PW* - *Perfect White Module, Interior + Flange*
BK / PW* - *Black Module + Interior, Perfect White Flange*

Options + Accessories

Module Options
TS - *Tapered Snoot*
HL - *Honeycomb Louver*
SL - *Linear Spread*
SP - *Prismatic Spread*
More Accessories Available

Fixture Options
SFR* - *Spray Foam Rated*
010 - *0-10 V Dimming**

*Consult factory for lead time and availability

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XFR22

X-SERIES | XM20 | 4-HEAD
FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

- Weight without module: 10.8 lb
- Ceiling Cut-Out: 11" x 11"

Ordering Information — **Example: XFR22/Xm20/25c-25c-25c-25c/30K/1100/WH/WH/SL-SL-SL-SL**

1 - 2 - 3 - 4 | 1 - 2 - 3 - 4

/ / - - - / / / / / - - -

Fixture
XFR22

Module
Xm20

Beam Spread

Beam Spread	CCT / Lumens
COB-optic	
15c	25K* / 1000
25c	27K / 1050
40c	30K / 1100
60c	30m* / 1100
	35K* / 1100
	35m* / 1100
	40K* / 1100
	25K* / 1300
	27K / 1450
	30K / 1500
	30m* / 1500
	35K* / 1500
	35m* / 1500
	40K* / 1500
	25K* / 1800
	27K / 1900
	30K / 2000
	30m* / 2000
	35K* / 2000
	35m* / 2000
	40K* / 2000
Multi-optic	
15m	27K / 1400
25m	30K / 1450
40m	30v / 1450
60m	35K* / 1450
	40K* / 1450
Specialty	
10c	27K / 750
	30K / 750
Dim-to-Warm	*(2700K to 1800K)*
25c	D27 / 1300
40c	

Finish
Die-cast, Powder Coated
WH / WH - *White Module, Interior + Flange*
BK / BK - *Black Module, Interior + Flange*
BK / WH* - *Black Module + Interior, White Flange*
PW / PW* - *Perfect White Module, Interior + Flange*
BK / PW* - *Black Module + Interior, Perfect White Flange*

Options + Accessories

Module Options
TS - *Tapered Snoot*
HL - *Honeycomb Louver*
SL - *Linear Spread*
SP - *Prismatic Spread*
More Accessories Available

Fixture Options
SFR* - *Spray Foam Rated*
010 - *0-10 V Dimming**

*Consult factory for lead time and availability

DISCONTINUED

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XFR

X-SERIES | XM20

FULLY RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

PHOTOMETRIC DETAILS | baseline X output multiplier X cri-cct multiplier = final output

COB OPTIC: Baseline for 23 W, 2000 lumens, 80+ CRI, 3000K

Xm20/10c/30K/750

Input Power:	11.2 W
Lumens:	749 lm
Efficacy:	67 lm/W
CBCP:	11648
Beam Angle:	10.6°
Field Angle:	20.8°
Spacing Criteria:	0.19

∠	0°	45°	90°
0°	11648	11648	11648
5°	6264	6089	5926
10°	1275	1202	1208
15°	502	487	477
20°	215	210	202
25°	97	96	93
30°	54	56	52
35°	35	34	31
40°	21	20	19
45°	10	9	10

Xm20/15c/30K/2000

Input Power:	22.7 W
Lumens:	1978 lm
Efficacy:	87 lm/W
CBCP:	15892
Beam Angle:	16.2°
Field Angle:	33.7°
Spacing Criteria:	0.28

∠	0°	45°	90°
0°	15871	15871	15871
5°	12935	12636	12231
10°	5971	5675	5433
15°	2207	2176	2116
20°	1027	977	936
25°	484	473	436
30°	246	252	230
35°	157	157	146
40°	122	115	109
45°	106	99	88

Xm20/25c/30K/2000

Input Power:	22.8 W
Lumens:	1821 lm
Efficacy:	80 lm/W
CBCP:	6729
Beam Angle:	23.3°
Field Angle:	50.4°
Spacing Criteria:	0.41

∠	0°	45°	90°
0°	6729	6729	6729
5°	5937	5855	5779
10°	4081	3975	3895
15°	2348	2291	2231
20°	1274	1228	1203
25°	710	683	676
30°	427	411	404
35°	280	270	265
40°	198	189	187
45°	135	124	124

Xm20/40c/30K/2000

Input Power:	22.4 W
Lumens:	1823 lm
Efficacy:	81 lm/W
CBCP:	3312
Beam Angle:	39.7°
Field Angle:	72.4°
Spacing Criteria:	0.72

∠	0°	45°	90°
0°	3310	3310	3310
5°	3180	3206	3216
10°	2795	2843	2868
15°	2227	2283	2320
20°	1591	1636	1682
25°	1021	1047	1095
30°	603	618	655
35°	347	355	378
40°	207	212	224
45°	131	133	140

Xm20/60c/30K/2000

Input Power:	22.9 W
Lumens:	1990 lm
Efficacy:	87 lm/W
CBCP:	1121
Beam Angle:	53.3°
Field Angle:	91.4°
Spacing Criteria:	1.00

∠	0°	45°	90°
0°	1118	1118	1118
5°	1089	1085	1076
10°	1030	1018	997
15°	937	922	887
20°	799	770	737
25°	632	598	576
30°	460	431	414
35°	308	287	279
40°	201	187	180
45°	126	117	108

3'	0.56' D; 906 FC	0.85' D; 1234 FC	1.23' D; 523 FC	2.16' D; 257 FC	3.01' D; 87 FC
6'	1.11' D; 227 FC	1.70' D; 309 FC	2.47' D; 131 FC	2.47' D; 64 FC	6.02' D; 22 FC
9'	1.67' D; 101 FC	2.55' D; 137 FC	3.70' D; 58 FC	6.49' D; 29 FC	9.03' D; 10 FC
12'	2.23' D; 57 FC	3.41' D; 77 FC	4.94' D; 33 FC	8.65' D; 16 FC	12.04' D; 5 FC
15'	2.78' D; 36 FC	4.26' D; 49 FC	6.17' D; 21 FC	10.82' D; 10 FC	15.06' D; 4 FC

MULTI-OPTIC: Baseline for 16 W, 1450 lumens, 80+ CRI, 3000K

Xm20/15m/30K/1450

Input Power:	16.2 W
Lumens:	1595 lm
Efficacy:	98 lm/W
CBCP:	18848
Beam Angle:	12.7°
Field Angle:	28.0°
Spacing Criteria:	0.22

∠	0°	45°	90°
0°	18848	18848	18848
5°	11986	12047	12378
10°	4597	4761	4865
15°	1318	1708	1443
20°	449	521	469
25°	227	262	235
30°	165	172	160
35°	102	112	106
40°	70	76	83
45°	37	34	36

Xm20/25m/30K/1450

Input Power:	16.1 W
Lumens:	1525 lm
Efficacy:	95 lm/W
CBCP:	5928
Beam Angle:	26.1°
Field Angle:	49.2°
Spacing Criteria:	0.46

∠	0°	45°	90°
0°	5928	5928	5928
5°	5307	5357	5371
10°	3847	3970	4026
15°	2233	2393	2486
20°	1081	1179	1266
25°	501	554	600
30°	247	278	298
35°	134	152	160
40°	82	89	91
45°	48	54	55

Xm20/40m/30K/1450

Input Power:	16.2 W
Lumens:	1434 lm
Efficacy:	89 lm/W
CBCP:	2886
Beam Angle:	38.2°
Field Angle:	69.9°
Spacing Criteria:	0.69

∠	0°	45°	90°
0°	2886	2886	2886
5°	2813	2786	2753
10°	2422	2405	2364
15°	1922	1923	1882
20°	1409	1408	1385
25°	902	915	905
30°	513	532	524
35°	282	292	291
40°	155	161	161
45°	83	84	84

3'	0.67' D; 1466 FC	1.39' D; 461 FC	2.08' D; 225 FC
6'	1.33' D; 367 FC	2.78' D; 115 FC	4.16' D; 56 FC
9'	2' D; 163 FC	4.17' D; 51 FC	6.23' D; 25 FC
12'	2.66' D; 92 FC	5.56' D; 29 FC	8.31' D; 14 FC
15'	3.33' D; 59 FC	6.95' D; 18 FC	10.39' D; 9 FC

CRI-CCT MULTIPLIER

CRI	CCT	Multiplier
8 (80+)	2200K	0.86
	2500K	0.91
	2700K	0.96
	3000K	1.00
	3500K	1.03
	4000K	1.05
9 (90+)	2200K	0.70
	2500K	0.77
	2700K	0.83
	3000K	0.86
	3500K	0.89
	4000K	0.91
M (MonoWhite)	3000K	0.86
	3500K	0.88
V (VioLight)	3000K	0.89

OUTPUT MULTIPLIER

Package	Multiplier
17 W 1500 lm Xm20 COB-optic	0.82
13 W 1100 lm Xm20 COB-optic	0.77

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XFR

X-SERIES | XM20
SEMI RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

TM30 COLOR REPORTS

- 3000K with 80+ CRI
- R_f = 84; R_g = 94
- R_A = 82; R_9 = 11

- 3000K with 90+ CRI
- R_f = 92; R_g = 100
- R_A = 93; R_9 = 56

- 3000K with 97+ CRI
- R_f = 96; R_g = 104
- R_A = 97; R_9 = 98

- 3000K with MonoWhite
- R_f = 91; R_g = 100
- R_A = 91; R_9 = 42

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XFR

X-SERIES | XM20
SEMI RECESSED MULTIPLE

SOLAIS®

PROJECT _____ TYPE _____

SPECIFICATION _____

DIM TO WARM DETAILS | Dim to warm only available with 25° and 40° beam spreads; **90+CRI**

- 2700K to 1800K with 90+ CRI
- R_f = 92; R_g = 100
- R_A = 93; R_9 = 57

Xm20/25c/D27/1300

Input Power:	18.3 W
Lumens:	1277 lm
Efficacy:	70 lm/W
CBCP:	4427
Beam Angle:	27.9°
Field Angle:	53.1°
Spacing Criteria:	0.50

∠	0°	45°	90°
0°	4410	4410	4410
5°	4262	4250	4150
10°	3388	3404	3243
15°	2218	2252	2097
20°	1234	1269	1166
25°	609	624	577
30°	312	314	289
35°	152	151	141
40°	66	69	65
45°	24	26	25

Xm20/40c/D27/1300

Input Power:	18.3 W
Lumens:	1247 lm
Efficacy:	68 lm/W
CBCP:	2806
Beam Angle:	36.1°
Field Angle:	65.9°
Spacing Criteria:	0.50

∠	0°	45°	90°
0°	2796	2796	2796
5°	2742	2744	2713
10°	2432	2448	2398
15°	1867	1906	1849
20°	1247	1298	1252
25°	749	787	758
30°	423	443	426
35°	231	241	231
40°	116	122	118
45°	56	59	57

3'	1.49' D; 343 FC	1.95' D; 217 FC
6'	2.98' D; 86 FC	3.90' D; 54 FC
9'	4.47' D; 38 FC	5.86' D; 24 FC
12'	5.96' D; 21 FC	7.81' D; 14 FC
15'	7.45' D; 14 FC	9.76' D; 9 FC

WARNING: Not for use in fully enclosed luminaires. Risk of electric shock. Use in an indoor, dry location only. This device is not intended for use with emergency exit fixtures or emergency exit lights. May not be compatible with all dimmers; please visit solais.com/dimming for up-to-date dimmer compatibility information.
NOTES: This device complies with Part 15 of the FCC Rule. This product may cause interference with other devices. If interference occurs, change the locations of the products involved. **Compatible on 120v systems.**

LUXIANCE®

Luxiance utilizes active cooling to remove heat from the LED system - allowing Solais LED lamps to operate cooler, resulting in superior life, light output, and performance.

THEROTTLE

Thermal Throttle – In the event that Solais products begin to overheat, they will undetectably dim themselves to protect your technology investments.

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