238 SERIES · 120V · PAR38

## This medium and long throw unit is perfect for areas requiring visually quiet, high intensity light.

- Designed for all PAR38 medium screw base lamps up to 250 watts
- Sturdy aluminum housing
- Rugged steel self-locking yoke allows for horizontal and vertical focusing
- On/off safety switch (on most mounting types)
- Equipped with beam rotation and relamping handle for easy lamp changing
- Front rotation lock for alignment of directional accessories
- Has beam rotation lock for applications that require positive focus locking
- Removable front hinge assembly allows fixture to be transformed from spotlight to wallwash in seconds
- Internal accessory cartridge holds up to three size C LSI filters and accessories
- Removable cross-baffle eliminates glare (45 degree cutoff)
- Integral dimmer is available
- Finishes: LSI Black, White, and Silver
- Fixture weight: 1.5 lbs.
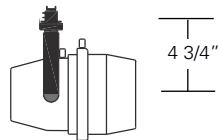
MOUNTING OPTIONS

238-00
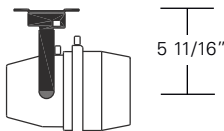Lexan fitting for 1 and 2 circuit LSI Track. With On/Off switch.
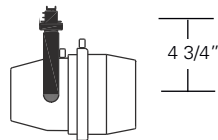
238-BUS
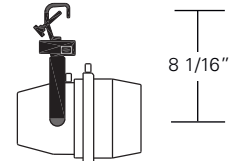Lexan fitting for 1 and 2 circuit LSI Busway. With On/Off switch.

4 3/4"

238-2G
Universal fitting for Unistrut Systems and any screw or bolt-up applications. With switch, straight 6-foot 3-wire grounding cord and NEMA 5-15P plug.

5 11/16"

238-3G
C-clamp for pipes from 5/8" to 2" O.D. With switch, straight 6-foot 3-wire grounding cord and NEMA 5-15P plug.
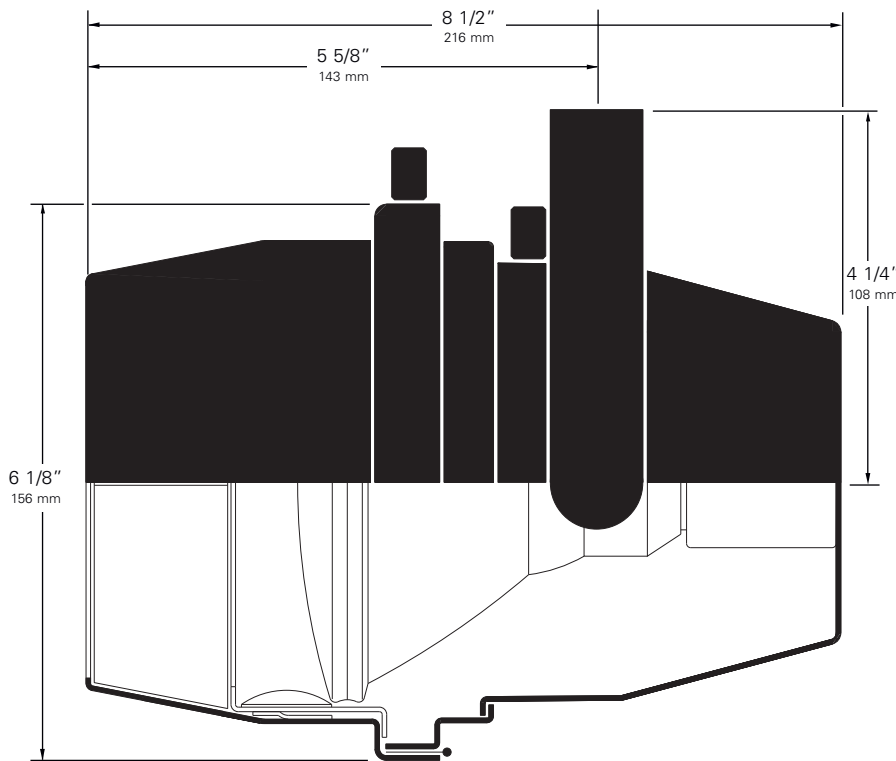
8 1/16"

238-5A
Canopy for permanent mounting on standard 4" octagonal outlet boxes.

4 3/4"
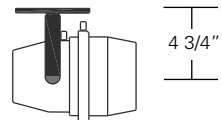
Other Options (Consult Factory):
- Stems, specify length (4" - 48")
- Custom color, RAL palette
- Security/Worklight Fixture, add suffix **EF**. For use with –EF00 (Track) and –EFBUS (Busway) mounting options only.

8 1/2"
216 mm

5 5/8"
143 mm

4 1/4"
108 mm

6 1/8"
156 mm

ORDERING INFORMATION

1. Select your **Mounting Option**.

2. Choose other fixture **Options** (add suffix):

• For Coiled Cord, add **CC**

Coiled Cord is 18/3 105ºC, 18" retracted, 6 foot extended. White fixtures are supplied with white cord, all other finishes are supplied with black cord. Available only with **2G** and **3G** mounting options. (When a coiled cord is not specified, a straight cord is provided.)

• For Wrench Locking, add **WL**

• For Integral Dimmer, add **FD**
  Note: **FD** is Forward Phase/Triac Dimming

3. Choose a **Finish** for your fixture:
Black (**B**)   White (**W**)   Silver (**S**)

Example:

238	—	**2G**	**CC**	**WL**	**FD**	**B**
FIXTURE		FITTING	COILED CORD	WRENCH LOCKING	DIMMER	FINISH

Blue fields are optional. Leave blank if not required.

4. Don't forget your **Accessories!**
LSI features the widest range of accessories in the industry to help you modify the light's intensity, color, texture and pattern.

PAR38 LAMPS

Watts	Spread	CBCP	
50	10°	14000	50PAR/HIR/SP10
50	30°	3000	50PAR/HIR/FL30
60	10°	20000	60PAR/HIR/SP10
60	30°	3600	60PAR/HIR/FL30
60	40°	2000	60PAR/HIR/FL40
80	10°	25000	80PAR/HIR/SP10
80	25°	5500	80PAR/HIR/FL25
90	10°	16000	90PAR/H/SP10
90	12°	12000	90PAR/HIR/SP12/XL
90	25°	4100	90PAR/H/FL25
90	25°	4100	90PAR/H/CB/FL25
90	40°	2800	90PAR/HIR/FL40/XL
100	10°	29000	100PAR/HIR/SP10
100	25°	6300	100PAR/HIR/FL25
100	40°	3400	100PAR/HIR/FL40
250	10°	40000	Q250PAR/SP10
250	30°	9000	Q250PAR/FL30

ACCESSORIES

Light Blocking Screens C801S, C802S, C803S

Stainless steel screens, used to reduce transmitted light without changing its color temperature.

Other accessories:

• **Louver C**

• **Glass Color Filters C**

• **Spread Lenses C990, C992, C995, C996**

• **Beam Softener C998**

• **OPTIVEX™ UV Filter C962**

239FR Entire Wall Wash Front Assembly *includes slash front, accessory cartridge, C995 spread lens and kicker reflector.*

PAR38 • PHOTOMETRIC DATA

50PAR/HIR/SP10 50 watt, 3000 hrs
Beam spread to 50% of CBCP **10º**
Center beam candlepower **14000**
Color temperature (Kelvin) **2810**

50PAR/HIR/FL30 50 watt, 3000 hrs
Beam spread to 50% of CBCP **30º**
Center beam candlepower **3000**
Color temperature (Kelvin) **2810**

60PAR/HIR/SP10 60 watt, 3000 hrs
Beam spread to 50% of CBCP **10º**
Center beam candlepower **20000**
Color temperature (Kelvin) **2875**

60PAR/HIR/FL30 60 watt, 3000 hrs
Beam spread to 50% of CBCP **30º**
Center beam candlepower **3600**
Color temperature (Kelvin) **2875**

60PAR/HIR/FL40 60 watt, 3000 hrs
Beam spread to 50% of CBCP **40º**
Center beam candlepower **2000**
Color temperature (Kelvin) **2875**

80PAR/HIR/SP10 80 watt, 3000 hrs
Beam spread to 50% of CBCP **10º**
Center beam candlepower **25000**
Color temperature (Kelvin) **2900**

80PAR/HIR/SP12 80 watt, 3000 hrs
Beam spread to 50% of CBCP **12º**
Center beam candlepower **19000**
Color temperature (Kelvin) **2900**

80PAR/HIR/FL25 80 watt, 3000 hrs
Beam spread to 50% of CBCP **25º**
Center beam candlepower **5500**
Color temperature (Kelvin) **2900**

100PAR/HIR/SP10 100 watt, 3000 hrs
Beam spread to 50% of CBCP **10º**
Center beam candlepower **29000**
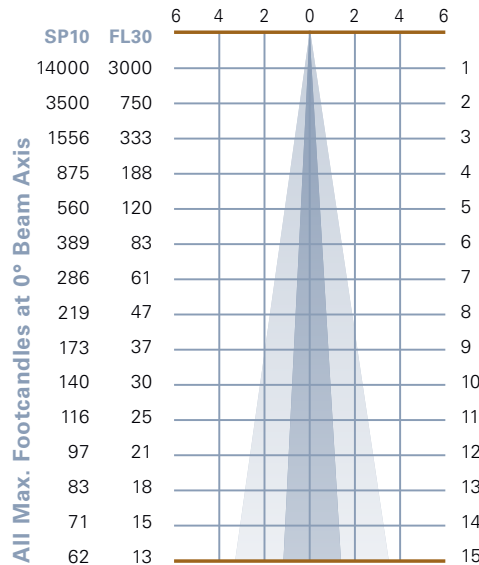Color temperature (Kelvin) **2900**

100PAR/HIR/FL25 100 watt, 3000 hrs
Beam spread to 50% of CBCP **25º**
Center beam candlepower **6300**
Color temperature (Kelvin) **2900**

100PAR/HIR/FL40 100 watt, 3000 hrs
Beam spread to 50% of CBCP **40º**
Center beam candlepower **3400**
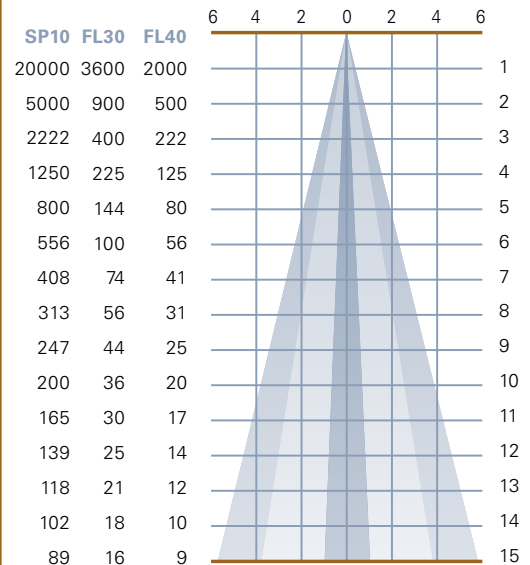Color temperature (Kelvin) **2900**

Abbreviations used:
* *CBCP = Center Beam Candlepower*
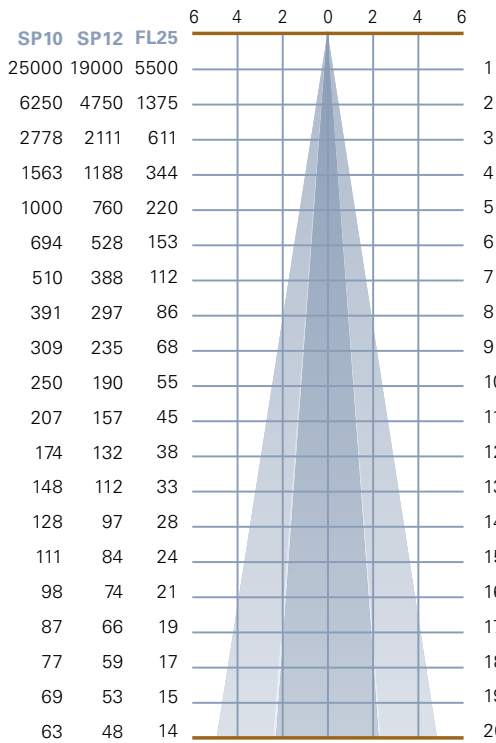* *H = Halogen*
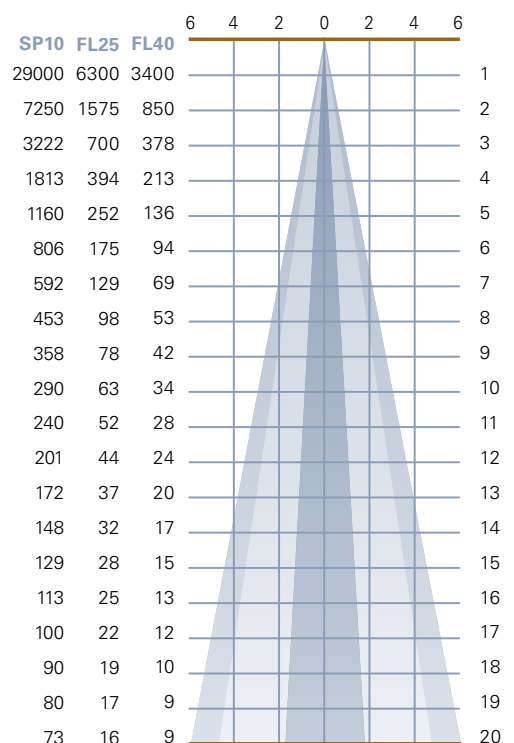* *HIR = Halogen Infra Red*

All Distances in Feet

All Max. Footcandles at 0° Beam Axis

50PAR/HIR/SP10 10° · **50PAR/HIR/FL30** 30°

Distance	SP10	FL30
1	14000	3000
2	3500	750
3	1556	333
4	875	188
5	560	120
6	389	83
7	286	61
8	219	47
9	173	37
10	140	30
11	116	25
12	97	21
13	83	18
14	71	15
15	62	13

60PAR/HIR/SP10 10° · **60PAR/HIR/FL30** 30° · **60PAR/HIR/FL40** 40°

Distance	SP10	FL30	FL40
1	20000	3600	2000
2	5000	900	500
3	2222	400	222
4	1250	225	125
5	800	144	80
6	556	100	56
7	408	74	41
8	313	56	31
9	247	44	25
10	200	36	20
11	165	30	17
12	139	25	14
13	118	21	12
14	102	18	10
15	89	16	9

80PAR/HIR/SP10 10° · **80PAR/HIR/SP12** 12° · **80PAR/HIR/FL25** 25°

Distance	SP10	SP12	FL25
1	25000	19000	5500
2	6250	4750	1375
3	2778	2111	611
4	1563	1188	344
5	1000	760	220
6	694	528	153
7	510	388	112
8	391	297	86
9	309	235	68
10	250	190	55
11	207	157	45
12	174	132	38
13	148	112	33
14	128	97	28
15	111	84	24
16	98	74	21
17	87	66	19
18	77	59	17
19	69	53	15
20	63	48	14

100PAR/HIR/SP10 10° · **100PAR/HIR/FL25** 12° · **100PAR/HIR/FL40** 25°

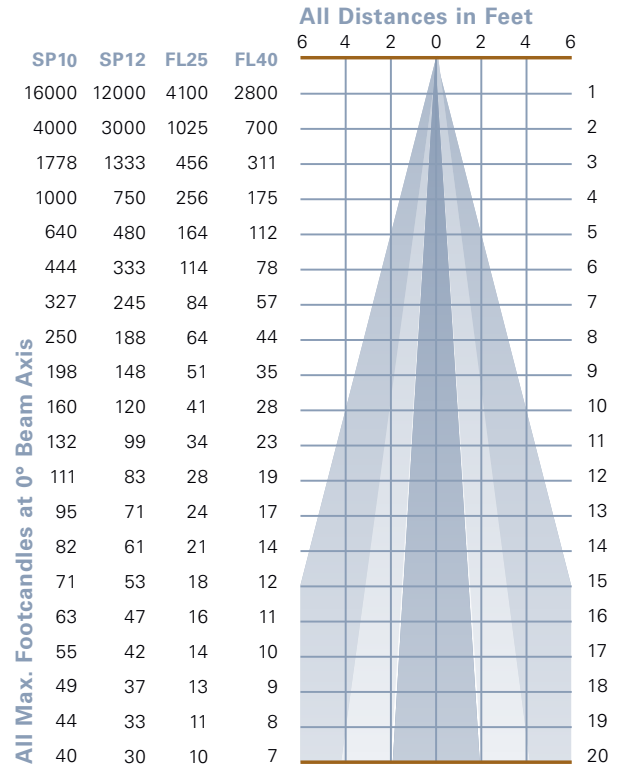| Distance	SP10	FL25	FL40
1	29000	6300	3400
2	7250	1575	850
3	3222	700	378
4	1813	394	213
5	1160	252	136
6	806	175	94
7	592	129	69
8	453	98	53
9	358	78	42
10	290	63	34
11	240	52	28
12	201	44	24
13	172	37	20
14	148	32	17
15	129	28	15
16	113	25	13
17	100	22	12
18	90	19	10
19	80	17	9
20	73	16	9

90PAR/H/SP10 90 watt, 2500 hrs
Beam spread to 50% of CBCP **10°**
Center beam candlepower **16000**
Color temperature (Kelvin) **2870**

90PAR/HIR/SP12/XL 90 watt, 6000 hrs
Beam spread to 50% of CBCP **12°**
Center beam candlepower **12000**
Color temperature (Kelvin) **2800**

90PAR/H/FL25 90 watt, 2500 hrs
Beam spread to 50% of CBCP **25°**
Center beam candlepower **4100**
Color temperature (Kelvin) **2870**

90PAR/HIR/FL40/XL 90 watt, 6000 hrs
Beam spread to 50% of CBCP **40°**
Center beam candlepower **2800**
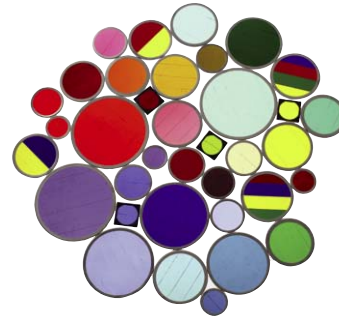Color temperature (Kelvin) **2800**

All Distances in Feet

SP10	SP12	FL25	FL40		Distance
16000	12000	4100	2800		1
4000	3000	1025	700		2
1778	1333	456	311		3
1000	750	256	175		4
640	480	164	112		5
444	333	114	78		6
327	245	84	57		7
250	188	64	44		8
198	148	51	35		9
160	120	41	28		10
132	99	34	23		11
111	83	28	19		12
95	71	24	17		13
82	61	21	14		14
71	53	18	12		15
63	47	16	11		16
55	42	14	10		17
49	37	13	9		18
44	33	11	8		19
40	30	10	7		20

All Max. Footcandles at 0° Beam Axis

90PAR/H/SP10 10°
90PAR/HIR/SP12/XL 12°
90PAR/H/FL25 25°
90PAR/HIR/FL40/XL 40°

LINE VOLTAGE COLOR MEDIA

COLOR MEDIA

As the foremost innovator in accent lighting, LSI offers a complete range of permanent fade-free glass color filters, which are available in nine stock diameters. All glass color filters are rimmed in a seamless aluminum ring and are slotted for heat expansion. In addition, LSI has available a Color Filter Sample Kit, Light Blocking Screens, OPTIVEX™ Glass UV Filters and Special Lenses. All are described in detail below.

Size	Diameter	LSI Fixture Series
AA	3″	LN20
A	3 1/2″	230, 280, LN30
C	4 3/4″	200, 238, 290, GR38, LN38, CX38

Special Glass Color Filters

LSI will fabricate, on special order, glass color filters in most sizes and shapes.

FS4 — Color Filter Samples

To facilitate selection of glass color filters, LSI supplies a complete set of labeled glass and dichroic samples in a handy carrying case.

Multicolor® Filters

Unique LSI four color glass filters create rich exciting blended color effects on all objects with brilliant four color fringed shadows on background.

No.	Glass Colors Used
760	910/930/944/921
761	910/930/921/944
762	944/921/910/930
763	944/930/910/921
764	921/944/910/930

Duocolor® Filters

LSI two color glass filters blend to form one unique color that previously could only be achieved by using two separate color filters in the same fixture. Two color fringed shadows produced on background.

No.	Glass Colors Used
770	910/944
771	910/921
772	910/930
773	944/933
774	921/930
775	930/933
776	910/948

Notes:

1. Values given are approximate due to slight variations in glass color and thickness.

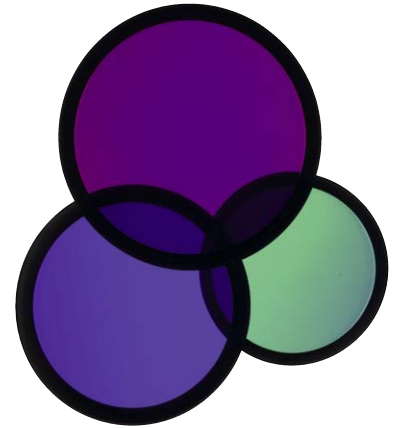| No.	Color	[1]% of Light Transmission
902	Medium Pink	36
903	Deep Pink	37
904	Flesh Pink	73
906	Pale Lavender	14
907	Surprise Pink	19
908	Lilac	21
910	Warm Red	10
911	Strawberry	6
912	Ruby	4
913	Magenta	1
914	Light Amethyst	25
915	Medium Amethyst	16
916	Deep Amethyst	4
917	Olive	18
918	Light Green	68
920	Medium Green	25
921	Deep Green	7
922	Silver green	65
923	Yellow Green	49
924	Emerald Green	12
925	Light Turquoise	68
926	Medium Turquoise	40
927	Deep Turquoise	17
928	Light Blue	34
930	Medium Blue	3
932	Daylight	59
933	Gene Moore Blue	18
936	Grey	56
937	Light Blue Green	17
939	Light Amber	68
940	Medium Amber	48
941	Deep Amber	43
942	Straw	78
943	Gold	87
944	Canary Yellow	84
945	Lemon	81
946	Pumpkin	32
947	Tangerine	20
948	Orange	23
949	Pink Gold	54
950	Bronze	48
951	Brass	11
952	Autumn Tan	11
953	Leaf Brown	19
954	Butter Pecan	3
955	Toasted Almond	1

DICHROIC COLOR MEDIA

DICHROIC COLOR FILTERS

In addition to our complete line of glass color filters, LSI now offers dichroic glass color filters that achieve purer, more saturated, richer color by selective wavelength transmission. Since these filters reflect rather than absorb the unwanted color wavelengths, a higher intensity of colored light can be obtained with fewer or lower wattage fixtures. In addition, this selective transmission allows for very accurate color matching from filter to filter.

All standard LSI filter sizes are available in a wide palette of well chosen dichroic colors that can be used with all LSI fixtures that accept accessories.

LSI dichroic glass color filters have the added benefit of being rimmed for extra durability to allow for frequent usage without fear of breakage or edge chipping.

Size | Diameter | LSI Fixture Series

Size	Diameter	LSI Fixture Series
AA	3″	LN20
A	3 1/2″	230, 280, LN30
C	4 3/4″	200, 238, 290, GR38, LN38, CX38

Special Glass Color Filters
LSI will fabricate, on special order, dichroic glass color filters in most sizes and shapes not exceeding a 13″ diameter circle overall.

FS4 — Color Filter Samples
To facilitate selection of glass color filters, LSI supplies a complete set of 1 3/4″ X 1 3/4″ labeled glass and dichroic samples in a handy carrying case.

Technical Data

Dichroic color filters are created in a vacuum chamber by multi-layer vapor deposits of different minerals onto low expansion, chemically resistant Borosilicate glass.

Deposits are made in alternating layers of varying microscopic thickness which allow very narrow color wavelengths to be selectively transmitted and all other wavelengths to be reflected.

LSI does not recommend using dichroic color filters with lamps or fixtures that have beam spreads greater than 40° because a secondary color aura is created by the wide angular transmitted wavelengths that are different than the desired color wavelength.

Since there is mainly transmission and reflection of the color wavelengths by the dichroic filter and very little absorption, the dichroic filter can be used with many high temperature lights that normally would not accept color filters.

No.	Color	% of Light Transmission
2001	Light Pink	69
2002	Medium Pink	43
2003	Hot Pink	11
2004	Pale Pink	55
2010	Deep Magenta	29
2011	Lavender	24
2012	Vivid Magenta	31
2013	Lavender Accent	48
2014	Lilac	37
2015	Purple Fusion	12
2020	Sky Blue	39
2021	Sea Blue	39
2022	Cyan	33
2023	Light Blue Green	30
2024	Primary Blue	24
2025	Medium Red Blue	15
2026	Deep Purple	16
2027	Peacock Blue	53
2028	Mediterranean Blue	20
2029	Boost Blue	51
2040	Light Yellow Green	64
2041	Fern Green	47
2042	Turquoise	35
2043	Primary Green	31
2044	Industrial Green	64
2050	Yellow	80
2051	Amber	71
2052	Amber Blush	38
2053	Bastard Amber	71
2054	Goldenrod	63
2055	Bright Straw	56
2060	Medium Orange	51
2061	Orange	44
2070	Flame Red	27
2071	Primary Red	25