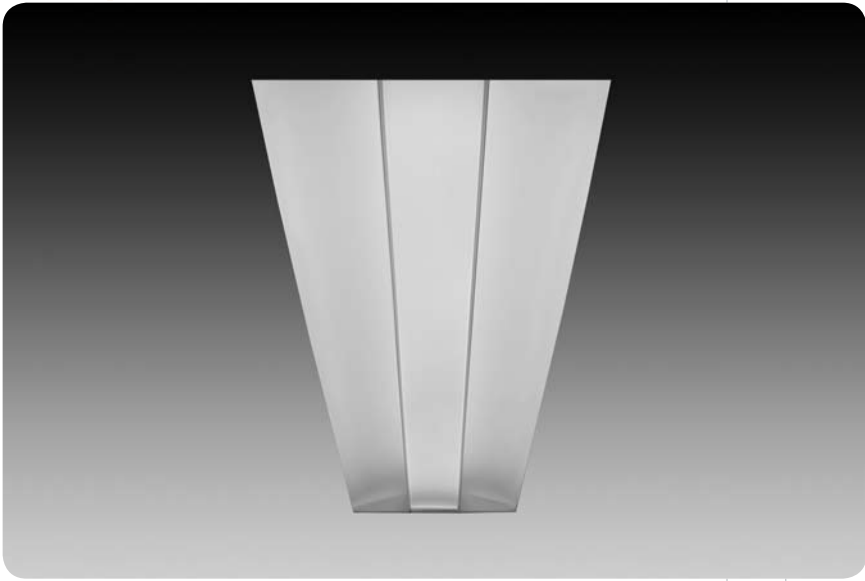


equation™ 1x4



Patent Pending

features

Equation blends sleek aesthetics and uniform diffuse illumination while delivering high fixture efficiencies.

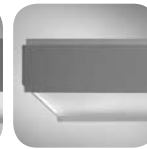
Center diffuser features MicroGlow™ prismatic lens technology. Precision molded conical prisms deliver 92% light transmission while controlling high angle brightness.

Patent pending QuickLatch™ hinged diffuser system makes relamping easy.

shielding options

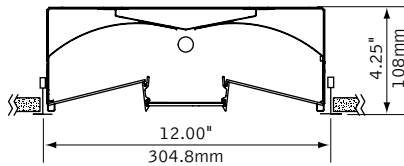


natural anodized side rails



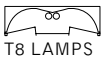
high performance white side rails

dimensional data



Overall height for luminaire with Air Return is 4.90"

lamping options



T8 LAMPS

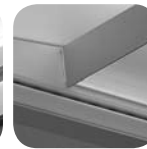


T5/T5HO LAMPS

details & options



QuickLatch™



air return

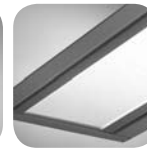


daylight/occupancy sensor

companion luminaire



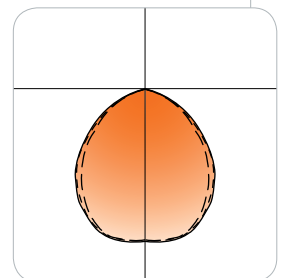
twelve with MicroGlow™



avenue b with MicroGlow™

performance

High Performance White Side Rails
 1-Lamp T5HO
 75% Efficiency
 1560 cd @ 10°



Visit focalpointlights.com for complete photometric data.

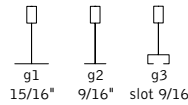
fixture:

project:

mounting information

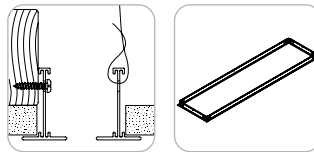
grid

for lay-in grid, specify G1, G2 or G3.



drywall frame kit

specify "DF" Drywall Frame Kit for drywall ceiling conditions.



Use tie-wire or screws to secure frame kit.

cut out dimensions:
 1': Min: 12.25"
 Max: 12.563"
 4': Min: 48.25"
 Max: 48.563"

specifications

construction

One piece 20 Ga. Steel reflector and housing.
 20 Ga. Steel ends form finishing housing.
 Bottom access 20 Ga. Steel ballast compartment.
 Earthquake brackets supplied as standard.

Weight: 19 lbs

optic

20 Ga. Steel reflectors finished in matte satin white powder coat.
 .080" thick frosted white acrylic diffusers.
 .125" thick MicroGlow™ miniature prism acrylic lens and .120" thick linear spread lens retained with side rails available in natural anodized aluminum or Matte Satin White.

electrical

Electronic ballasts are thermally protected and have a Class "P" rating.
 Optional Stepped and other dimming ballasts available.
 Consult factory for dimming specifications and availability.
 UL and cUL listed.

sensors

Philips Luxsense daylight sensor measures reflected light from the surface below and dims lamp output when the light level exceeds required level. Output may be adjusted by turning the dial. A 0-10V dimming ballast is required (T5/T8 - DS, T5H0 - D7 standard).

Wattstopper daylight sensor is a closed loop system that measures total light level from daylight and electric light. A 0-10V dimming ballast is required (T5/T8 - DS, T5H0 - D7 standard).

Wattstopper occupancy sensor is a passive infrared sensor designed for cubicles and small offices. It has built-in daylight sensing that will hold lights off when adequate ambient light exists. One sensor controls multiple fixtures.

finish

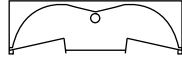
Polyester powder coat applied over a 5-stage pre-treatment.

ordering

luminaire series	FEQ	<u>FEQ</u>
Equation	FEQ	
nominal size	14	<u>14</u>
1' x 4'	14	
distribution	B	<u>B</u>
Bi-Directional	B	
lamp quantity		
One Lamp	1	
Two Lamps	2	
Three Lamps (t8 lamps only)	3	
lamp type		
T8 (two lamp only)	T8	
T5H0	T5H0	
T5	T5	
ballast		
Electronic Instant Start <20% THD (T8 only)	E	
Electronic Program Start <10% THD	S	
Electronic Dimming Ballast*	D	
Electronic Step Dimming	DA	
voltage		
120 Volt	120	
277 Volt	277	
347 Volt	347	
mounting		
15/16" Grid	G1	
9/16" Grid	G2	
9/16" Slot Tee	G3	
shielding		
Natural Anodized Side Rails	AL	
High Performance White Side Rails	WP	
factory options		
Air Return (Overall height for luminaire with Air Return is 4.90")	AR	
Chicago Plenum	CP	
Drywall Frame Kit	DF	
Cut out dimensions: Min: 12.25"/Max: 12.563" Min: 48.25"/Max: 48.563"		
Emergency Battery Pack*	EM	
HLR/GLR Fuse	FU	
Flex Whip*	FW	
Include 3000K Lamp	L830	
Include 3500K Lamp	L835	
Include 4100K Lamp	L841	
Separate Circuit*	SC	
Master Satellite*	MS	
Tandem Wiring*	TW	
Lutron™ Sensor Feed* (EcoSystem ballast required)	SF	
Philips® Daylight Sensor* (0-10V dimming ballast required)	PY1	
WattStopper™ Daylight Sensor* (0-10V dimming ballast required)	WY1	
WattStopper™ Occupancy Sensor*	W01	
finish	<u>WH</u>	
Matte Satin White	WH	

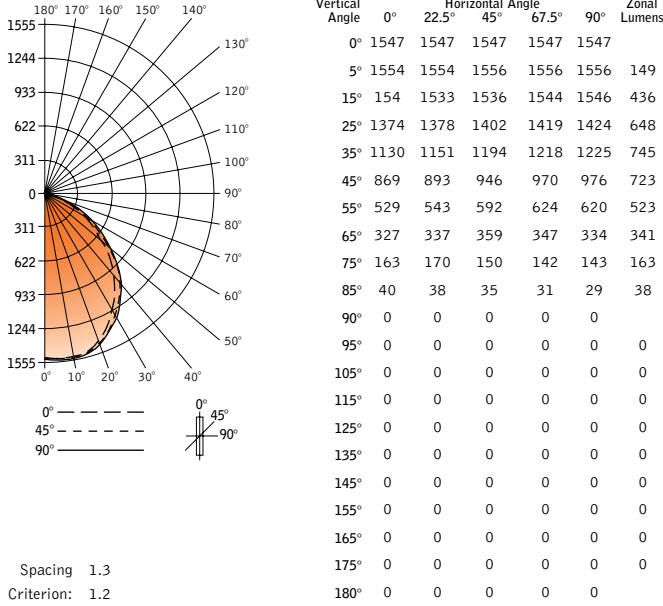
* for more information see Reference section.

high performance white side rails
equation™ 1x4



Filename: FEQ141T5HWP.IES
Catalog #: FEQ-14-B-1T5H0-S-120-G1-WP-WH
Efficiency: 75%
Test #: 13281.0

CANDLEPOWER DISTRIBUTION



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	1232	24.6	32.7
0°-40°	1977	39.5	52.5
0°-60°	3223	64.5	85.6
0°-90°	3764	75.3	100.0
Total Luminaire	3764	75.3	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	3735	4065	4194
55°	2803	3136	3285
65°	2351	2581	2402
75°	1914	1761	1679
85°	1395	1220	1011

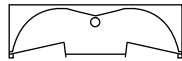
CO-EFFICIENTS OF UTILIZATION

Floor	80	70	20	30	10	00
Ceiling	70	50	30	10	50	10
Wall	70	50	30	10	50	10
RCR 0	90	90	90	90	88	88
1	83	80	78	75	81	79
2	77	72	67	64	75	70
3	71	64	59	55	69	63
4	66	58	52	47	64	57
5	60	52	45	41	59	51
6	56	47	40	36	54	46
7	52	42	36	31	50	41
8	48	38	32	27	46	37
9	44	34	28	24	43	33
10	41	31	25	21	40	30

Numbers indicate percentage values of reflectivity.

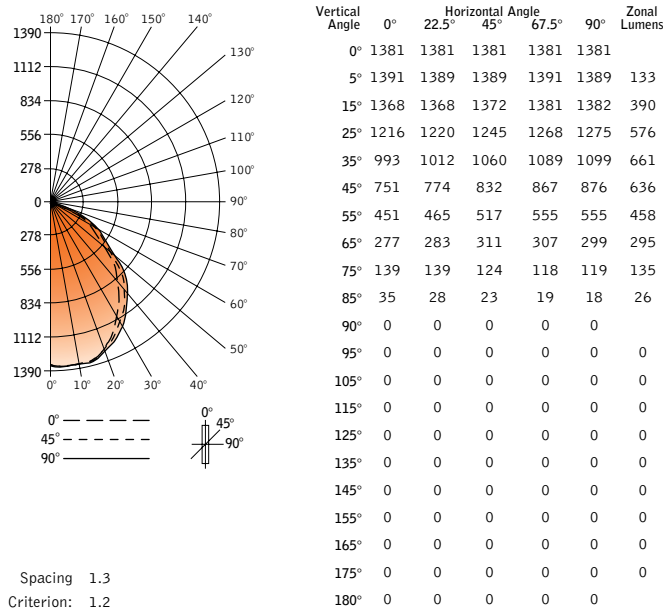
Go to www.focalpointlights.com for additional photometric data.

natural anodized side rails
equation™ 1x4



Filename: FEQ141T5HAL.IES
Catalog #: FEQ-14-B-1T5H0-S-120-G1-AL-WH
Efficiency: 66%
Test #: 13280.0

CANDLEPOWER DISTRIBUTION



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	1098	22.0	33.2
0°-40°	1759	35.2	53.2
0°-60°	2853	57.1	86.2
0°-90°	3309	66.2	100.0
Total Luminaire	3309	66.2	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	3227	3576	3765
55°	2389	2739	2940
65°	1992	2236	2150
75°	1632	1456	1397
85°	1220	802	628

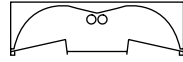
CO-EFFICIENTS OF UTILIZATION

Floor	80	70	20	30	10	00
Ceiling	70	50	30	10	50	10
Wall	70	50	30	10	50	10
RCR 0	79	79	79	79	77	77
1	73	71	68	66	72	69
2	68	63	59	56	66	62
3	63	57	52	48	61	56
4	58	51	46	42	57	50
5	53	46	40	36	52	45
6	49	41	36	32	48	41
7	45	37	32	28	44	37
8	42	33	28	24	41	33
9	39	30	25	21	38	30
10	36	27	22	19	35	27

Numbers indicate percentage values of reflectivity.

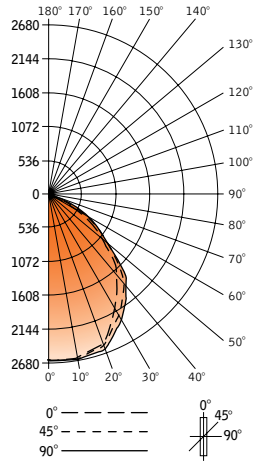
Go to www.focalpointlights.com for additional photometric data.

high performance white side rails
equation™ 1x4



Filename: FEQ142T5HWP.IES
 Catalog #: FEQ-14-B-2T5H0-S-120-G1-WP-WH
 Efficiency: 65%
 Test #: 13283.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	2660	2660	2660	2660	2660	
5°	2653	2654	2656	2656	2657	254
15°	2588	2591	2603	2622	2628	739
25°	2341	2352	2408	2453	2467	1113
35°	1928	1971	2065	2122	2143	1287
45°	1533	1580	1684	1732	1738	1284
55°	927	953	1035	1038	1023	897
65°	569	582	593	582	572	578
75°	282	278	252	231	230	269
85°	73	66	59	52	51	65
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

Spacing 1.3
 Criterion: 1.2

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	2105	21.1	32.5
0°-40°	3392	33.9	52.3
0°-60°	5573	55.7	85.9
0°-90°	6485	64.8	100.0
Total Luminaire	6485	64.8	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	6588	7237	7469
55°	4911	5483	5420
65°	4091	4264	4113
75°	3311	2959	2700
85°	2545	2057	1778

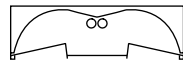
CO-EFFICIENTS OF UTILIZATION

Floor	80	70	50	30	10	00
Ceiling	70	50	30	10	00	00
Wall	70	50	30	10	00	00
RCR 0	77	77	77	77	77	77
1	72	69	67	65	65	62
2	66	62	58	55	55	53
3	61	55	51	47	53	46
4	57	50	45	41	47	40
5	52	44	39	35	42	35
6	48	40	35	31	38	30
7	44	36	31	27	35	27
8	41	32	27	24	31	23
9	38	29	24	21	28	20
10	35	27	21	18	26	18

Numbers indicate percentage values of reflectivity.

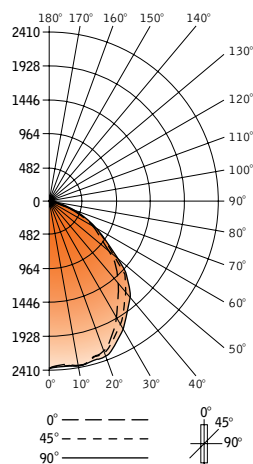
Go to www.focalpointlights.com for additional photometric data.

natural anodized side rails
equation™ 1x4



Filename: FEQ142T5HAL.IES
 Catalog #: FEQ-14-B-2T5H0-S-120-G1-AL-WH
 Efficiency: 58%
 Test #: 13282.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	2395	2395	2395	2395	2395	
5°	2387	2387	2388	2390	2390	228
15°	2327	2327	2340	2360	2367	664
25°	2097	2108	2165	2216	2233	1001
35°	1713	1752	1850	1918	1945	1154
45°	1341	1384	1505	1569	1576	1146
55°	804	829	924	931	917	795
65°	489	507	510	548	548	517
75°	243	234	209	196	203	228
85°	63	49	41	36	34	48
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

Spacing 1.3
 Criterion: 1.2

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	1894	18.9	32.8
0°-40°	3048	30.5	52.7
0°-60°	4988	49.9	86.3
0°-90°	5781	57.8	100.0
Total Luminaire	5781	57.8	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	5763	6468	6773
55°	4260	4895	4858
65°	3516	3667	3940
75°	2853	2454	2383
85°	2197	1430	1185

CO-EFFICIENTS OF UTILIZATION

Floor	80	70	50	30	10	00
Ceiling	70	50	30	10	00	00
Wall	70	50	30	10	00	00
RCR 0	69	69	69	69	69	69
1	64	62	60	58	58	55
2	59	55	52	49	52	47
3	55	50	46	42	47	41
4	51	44	40	37	42	36
5	46	40	35	32	38	31
6	43	36	31	28	34	27
7	40	32	28	24	31	24
8	37	29	24	21	28	21
9	34	26	22	18	25	18
10	31	24	19	16	23	16

Numbers indicate percentage values of reflectivity.

Go to www.focalpointlights.com for additional photometric data.