

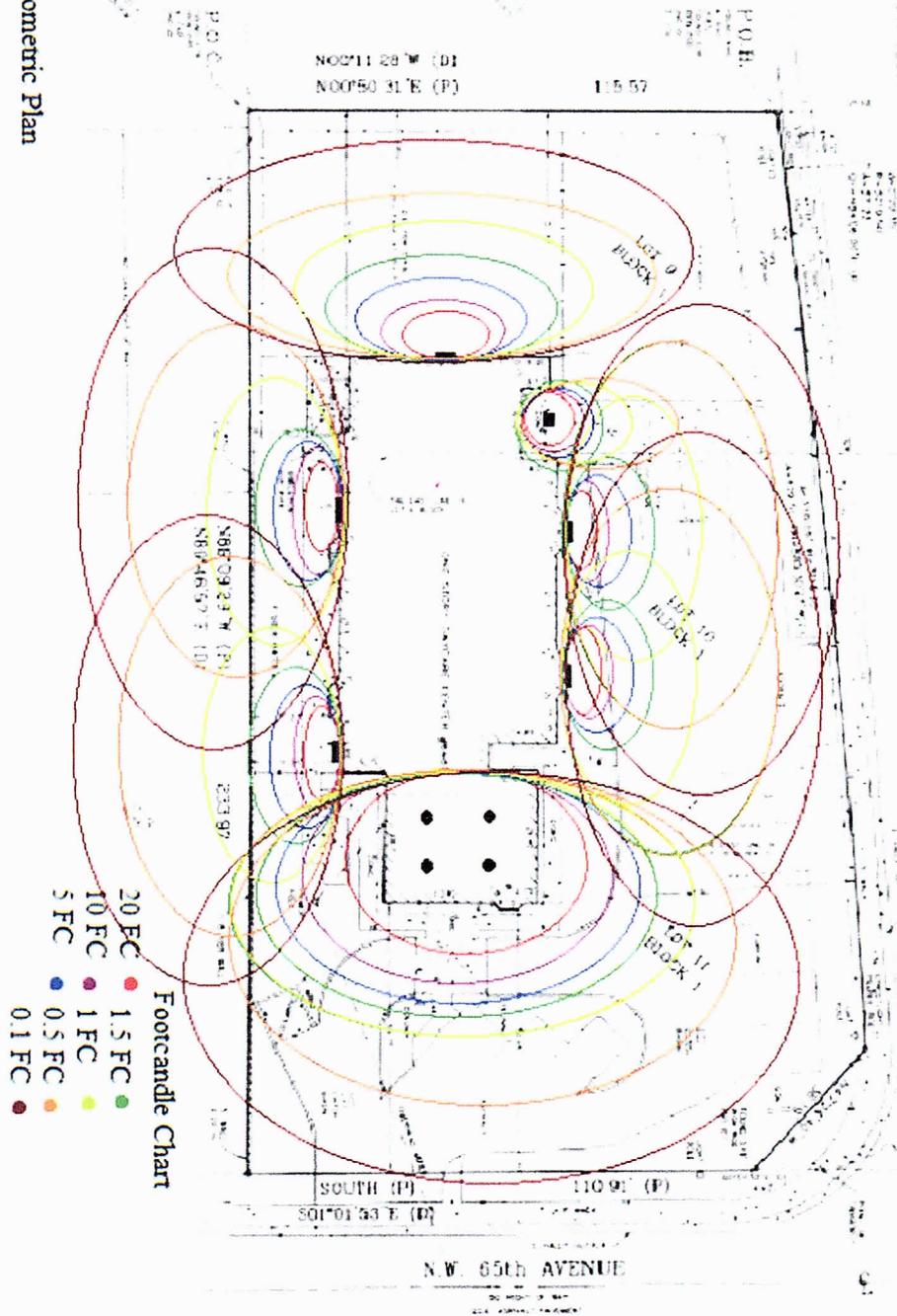
Fantasy Station Academy
 6460 West Atlantic Blvd
 Margate, FL 33063

WEST ATLANTIC BOULEVARD

GARRETT
 04/25/00
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 CHRYSLER/STARS



Photometric Plan



HLF-150HSW-L-X-XXX-XXXX

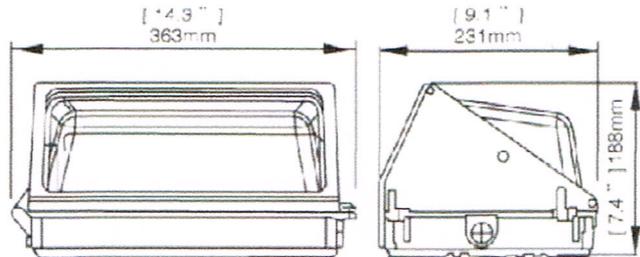
LED MEDIUM WALL PACK - SEMI CUTOFF

IP54

Environment Temperature
-30°F ~ +130°F

Environment Humidity
≤95%

Lifespan
50,000hrs



40W LED Wall Pack Products Specification

FEATURES

- Replace up to 175Watt Metal Halide
- Universal 120-277V
- Mercury Free: no UV
- Heavy-duty cast aluminum housing; rust and corrosion proof; polyester powder coating
- High light transmittance borosilicate glass
- Multiple knockouts for mounting convenience
- Die-cast aluminium wall bracket with 1/2" conduit openings with plugs for conduit mounting
- 4KV surge protector inside of power supply
- Occupancy and bi-level power supply compatible
- LM-79/80 data available
- 5 Year Limited Warranty

CONSTRUCTION

- Fixture: Heavy-duty die casting aluminium housing polyester powder coating;
- Lens: High light transmittance polycarbonate
- Diffuser: High light transmittance borosilicate
- LEDs: Top grade LED, high-output, long-life; CREE, SEOUL, SAMSUNG and so on
- Heat Sink: Aluminium plate attach to the Housing and LEDs to act the whole fixture as the heat sink system to reduce LED heats and add to life.
- LED Driver: IP65/ Constant current meets UL1310 UL 48 Class 1
- Finish: Dark Bronze or white finish.. Environmentally friendly polyester powder coatings
- Mounting: Heavy-duty cast aluminum housing; rust and corrosion proof; polyester powder coating

HLF-150HSW-L-X-XXX-XXXX

LED MEDIUM WALL PACK - SEMI CUTOFF

SPECIFICATION

Item No.	Specification	Data
General Performance	Input Wattage	40W
	Initial Lumens	3023
	Efficacy	73
	Input Voltage	120-277V/50-60HZ
	CRI	70
	CCT	5000K
	Power Factor	≥0.95
	THD	≤15%
	Driver Type	Constant Current / Class 1
	Surge Protector	4KV inside of Driver
	Luminaire Life	50000HRS
Physical	Dimension	14.3"x9.1"x7.4"
	Weight	9.6 lbs (4.35kg)
Operation Condition	Operating Temperature	-30°F ~ +130°F
	Humidity	≤95%
Certificate	Certification	ETL,cETL,DLC,FCC,LM79,LM80
	Environment	Suitable for Wet Location
	Material	Rohs compliant

lighting facts®
A Program of the U.S. DOE

Light Output (Lumens) 3023
Watts 41.23
Lumens per Watt (Efficacy) 73

Color Accuracy
Color Rendering Index (CRI) 70

Light Color
Correlated Color Temperature (CCT) 5023 (Daylight)

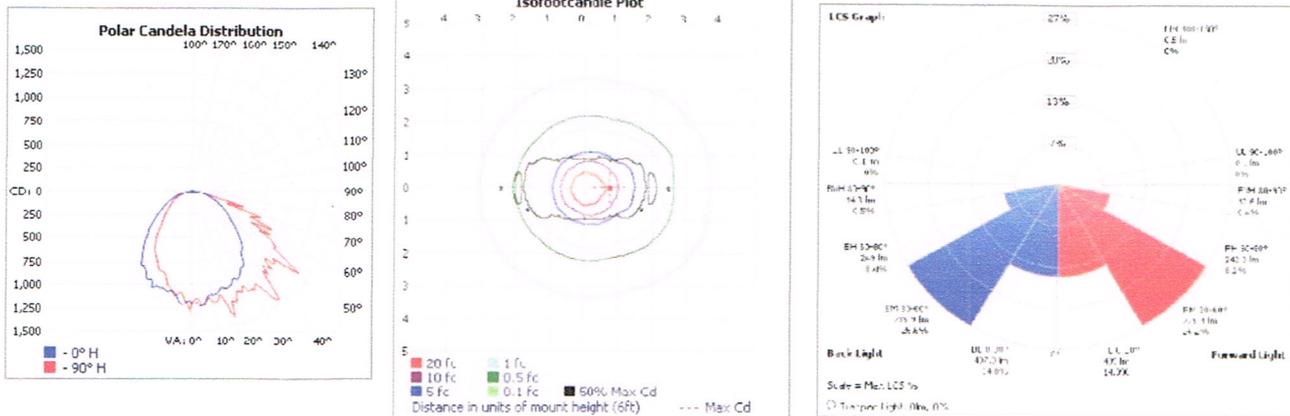
2700K 3000K 4500K 6500K

Warm White Bright White Daylight

Visit www.lightingfacts.com for the Label Reference Guide.

Registered Number: RD05-NAM0017-022011
Model Number: HLF-150HSW-L-X-XXX-XXXX
Type: LED luminaire (powered device) only

PHOTOMETRY



Zone	Lumens	% Lamp	% Luminaire
0-30	876.3	29.0%	29.0%
0-40	1,428.6	47.3%	47.3%
0-60	1,437.3	47.5%	47.5%
60-90	510.2	16.9%	16.9%
90-100	184.8	6.1%	6.1%
90-120	0.2	0%	0%
U+H	2,955.9	100%	100%
90-180	0.6	0%	0%
0-180	2,956.1	100%	100%

ROADWAY SUMMARY	
Cutoff Classification:	CUTOFF
Distribution:	TYPE 1, VERY SHORT
Max Cd, 90 Deg Vert:	3.1
Max Cd, 80 to <90 Deg:	81.4
	Lumens % Lamp
Downward Street Side:	1,469.4 49.7%
Downward House Side:	1,486.5 50.3%
Downward Total:	2,955.9 100%
Upward Street Side:	0.3 0%
Upward House Side:	0.3 0%
Upward Total:	0.6 0%
Total Lumens:	2,956.4 100%

LUMENS PER ZONE					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	111.2	3.8%	90-100	0.1	0%
10-20	308.1	10.4%	100-110	0.1	0%
20-30	457.1	15.5%	110-120	0.1	0%
30-40	552.3	18.7%	120-130	0.1	0%
40-50	534.2	18.1%	130-140	0.1	0%
50-60	474.5	16.1%	140-150	0.1	0%
60-70	333.5	11.3%	150-160	0.1	0%
70-80	157.8	5.3%	160-170	0.1	0%
80-90	26.9	0.9%	170-180	0.0	0%

LCS TABLE		
BUG RATING	B1 - U1 - G1	
FORWARD LIGHT	LUMENS %	
Low(0-30):	439.0 14.9%	
Medium(30-60):	775.4 26.2%	
High(60-80):	242.3 8.2%	
Very High(80-90):	12.6 0.4%	
BACK LIGHT		
Low(0-30):	437.3 14.8%	
Medium(30-60):	785.9 26.6%	
High(60-80):	249.0 8.4%	
Very High(80-90):	14.3 0.5%	
UPLIGHT		
Low(90-100):	0.1 0%	
High(100-180):	0.5 0%	
TRAPPED LIGHT:	0 0%	

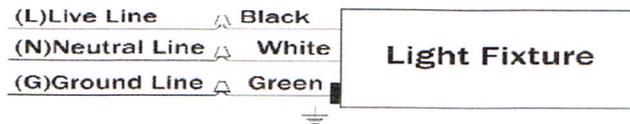
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LED MEDIUM WALL PACK - SEMI CUTOFF

WIRING

Universal voltage driver permits operation at 100V to 277VAC, 50 or 60Hz except fixtures factory ordered with a 120V photocell (/PC).

1. Connect the black fixture lead to the (L) LINE supply lead.
2. Connect the white fixture lead to the (N) COMMON supply lead.
3. Connect the bare copper Ground wire from fixture to supply lead.



Wiring diagram



FEATURES & SPECIFICATIONS

INTENDED USE

For use with frame-ins LP6, LP6F, LP6H and housing LI6F.

CONSTRUCTION

Aluminum white reflector.

Polyester powder coat paint.

Drop opal, flat white or fresnel glass lens.

White integral flange.

INSTALLATION

Socket to trim interface.

Rough-ins with clips retain trims.

Retaining clips riveted to top of reflector to hold trim inside housing.

Maximum ceiling thickness 3/4".

LISTING

UL Listed to U.S. and Canadian safety standards.

Wet location listed.

Energy (Calculated in accordance with NEMA standard LE-5.)

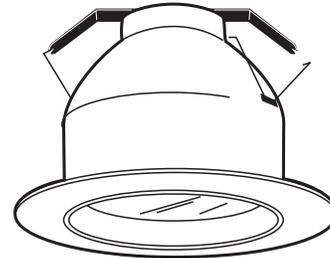
Fixture/ Reflector	LER	Annual* Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
LP6F TRT/6L4	25.86	\$9.28	18W TRT	1200	1.05	19
LP6F TRT/6L4	34.47	\$6.96	26W TRT	1800	1.1	27
LP6H S/6L4	26.40	\$9.09	70W S	5400	1.0	90
LP6H MH/6L4	26.88	\$8.93	100W MH	8000	1.0	125
LP6F TRT/6LB4	22.55	\$10.64	18W TRT	1200	1.05	19
LP6F TRT/6LB4	27.87	\$8.61	26W TRT	1800	1.1	27
LP6H S/6LB4	22.20	\$10.81	70W S	5400	1.0	90
LP6H MH/6LB4	23.04	\$10.42	100W MH	8000	1.0	125
LP6F DTT/6LD3	17.20	\$13.95	13W DTT	860	1.0	16
LP6F DTT/6LD3	21.71	\$11.05	18W DTT	1250	1.0	19
LP6F TRT/6LD3	20.84	\$11.52	18W TRT	1200	1.0	19
LP6F TRT/6LD3	28.60	\$8.39	26W TRT	1800	1.10	27
LP6F TRT/6LD3	22.87	\$10.50	32W TRT	2400	.98	36
LP6F TRT/6LD3	22.50	\$10.67	42W TRT	3200	.98	46
LP6H S/6LD3	24.60	\$9.76	70W S	5400	1.00	90
LP6H MH/6LD3	24.96	\$9.62	100W MH	8000	1.0	125
LP6F DTT/6LDB3	14.47	\$16.58	18W DTT	1250	1.0	19
LP6F TRT/6LDB3	15.25	\$15.73	18W TRT	1200	1.0	19
LP6F TRT/6LDB3	20.53	\$11.69	26W TRT	1800	1.1	27
LP6F TRT/6LDB3	13.72	\$17.49	32W TRT	2400	.98	36
LP6F TRT/6LDB3	16.36	\$14.67	42WTRT	3200	.98	46
LP6H S/6LDB3	19.80	\$11.72	70W S	5400	1.00	90
LP6H MH/6LDB3	20.48	\$13.40	100W MH	8000	1.0	125
LP6F TRT/6LF3	23.21	\$10.34	18W TRT	1200	1.05	19
LP6F TRT/6LF3	29.33	\$8.18	26W TRT	1800	1.1	27
LP6F S/6LF3	19.80	\$12.12	70W S	5400	1.0	90
LP6F MH/6LF3	20.48	\$11.72	100W MH	8000	1.0	125
LP6F TRT/6LFB3	17.91	\$13.40	18W TRT	1200	1.05	19
LP6F TRT/6LFB3	23.47	\$10.23	26W TRT	1800	1.1	27
LP6F S/6LFB3	14.40	\$16.67	70W S	5400	1.0	90
LP6F MH/6LFB3	14.72	\$16.30	100W MH	8000	1.0	125

*Comparative yearly lighting energy cost per 1000 lumens

Catalog Number	
Notes	Type

6" Finishing Trim

6L3/4



GLASS LENS
Wet Location
Narrow Flange

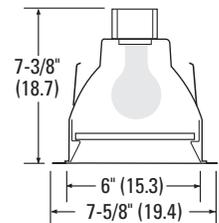
Specifications

Height: 7-3/8 (18.7)

Lamp Opening: 6 (15.3)

Diameter: 7-5/8 (19.4)

Trim height when used with Non-IC incandescent rough-ins.



All dimensions are inches (centimeters).

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

Series

- 6LD3** White Splay Drop Opal Lens
- 6LDB3** Black Baffle Splay Drop Prismatic Lens
- 6LF3** White Splay Flat White Lens
- 6LFB3** Black Baffle Splay Flat White Lens
- 6L4** White Splay Fresnel Lens
- 6LB4** Black Baffle Splay Fresnel Lens

Example: **6LD3**

Housing Compatibility

Housing and trim ordered separately.

Application	Source	Maximum wattage	Housing
Non-IC	Incandescent	100 A19	LP6
	Fluorescent	13 DTT	LP6F
		<i>6LD3 or 6LDB3 only</i> 18 DTT	LP6F
		18 TRT	LP6F
	<i>6LD3 or 6LDB3 only</i> 32 TRT	LP6F	
	H.I.D.	100 MH	LP6H
70 HPS		LP6H	
IC	Fluorescent	26TRT	LI6F
	<i>6LD3 or 6LDB3 only</i> 32 TRT		LI6F

6L3/4 6" Glass Lens Full Reflector Trim

Distribution curve	Distribution data	Output data	Coefficient of utilization	Single luminaire data 30" above floor									
6LD3, 100W A19 lamp, 1.3 s/mh, 1750 rated lumens, test no. 43093AM1													
	From 0°	cp. Lumens	Zone Lumens %lamp	rf rc rw	80% 50% 30%	20% 70% 50%	50% 30%	50% 30%	Mount height	Initial fc at beam center	50% Beam angle 66.0°	10% Beam angle 116.2°	
	0°	133	0°-30° 107 6.1	1	28 27 34	26 25 25	25 21 21	8'	4.4	7.2'	2.2	17.7'	0.4
	5°	133	0°-40° 178 10.2	2	24 22 23	21 22 21	21 18 18	10'	2.4	9.8'	1.2	24.1'	0.2
	15°	129	0°-60° 336 19.2	3	21 19 20	18 19 18	18 15 15	12'	1.5	12.4'	0.7	30.5'	0.2
	25°	123	0°-90° 487 27.8	4	19 16 18	16 17 15	15 13 13	14'	1.0	15.0'	0.5	37.0'	0.1
	35°	113	90°-180° 0 0.0	5	17 14 16	14 15 14	14 11 9	16'	0.7	17.6'	0.4	43.4'	0.1
	45°	100	0°-180° 487 27.8*	6	15 12 14	12 14 12	12 10 8						
	55°	89	* Efficiency	7	13 11 13	10 12 10	10 9 7						
	65°	73		8	12 10 11	9 11 9	8 10 8						
	75°	47		9	11 8 10	8 10 8	7 9 7						
	85°	26		10	10 8 9	7 9 7							
90°	13												

Distribution curve	Distribution data	Output data	Coefficient of utilization	Single luminaire data 30" above floor									
6LF3, 100W A19 lamp, 1.2 s/mh, 1750 rated lumens, test no. 43026AM2													
	From 0°	cp. Lumens	Zone Lumens %lamp	rf rc rw	80% 50% 30%	20% 70% 50%	50% 30%	50% 30%	Mount height	Initial fc at beam center	50% Beam angle 59.8°	10% Beam angle 107.3°	
	0°	364	0°-30° 266 15.2	1	56 54 52	51 50 49	49 45 43	8'	12.0	6.3'	6.0	14.9'	1.2
	5°	355	0°-40° 423 24.2	2	49 46 47	44 45 43	43 38 38	10'	6.5	8.6'	3.2	20.4'	0.7
	15°	335	0°-60° 723 41.3	3	44 40 42	38 40 38	38 33 33	12'	4.0	10.9'	2.0	25.8'	0.4
	25°	296	0°-90° 901 51.5	4	39 35 37	34 36 33	33 29 26	14'	2.8	13.2'	1.4	31.3'	0.3
	35°	251	90°-180° 0 0.0	5	35 31 34	30 33 29	29 26 26	16'	2.0	15.5'	1.0	36.7'	0.2
	45°	205	0°-180° 901 51.5*	6	32 27 30	27 29 26	26 21 21						
	55°	159	* Efficiency	7	29 24 27	23 27 23	23 21 21						
	65°	109		8	26 22 25	21 24 21	21 19 19						
	75°	57		9	24 19 23	19 22 19	19 17 17						
	85°	12		10	22 17 21	17 20 17							
90°	4												

Distribution curve	Distribution data	Output data	Coefficient of utilization	Single luminaire data 30" above floor									
6L4, 100W A19 lamp, 1.1 s/mh, 1750 rated lumens, test no. 42870C1													
	From 0°	cp. Lumens	Zone Lumens %lamp	rf rc rw	80% 50% 30%	20% 70% 50%	50% 30%	50% 30%	Mount height	Initial fc at beam center	50% Beam angle 55.8°	10% Beam angle 88.5°	
	0°	575	0°-30° 416 23.8	1	52 51 49	48 47 47	47 44 43	8'	19.0	5.8'	9.5	10.7'	1.9
	5°	570	0°-40° 591 33.8	2	48 46 45	44 44 43	43 39 39	10'	10.2	8.0'	5.1	14.6'	1.0
	15°	524	0°-60° 770 44.0	3	44 41 42	40 40 39	39 36 36	12'	6.4	10.1'	3.2	18.5'	0.6
	25°	461	0°-90° 837 47.8	4	41 38 39	37 38 36	36 31 31	14'	4.3	12.2'	2.2	22.4'	0.4
	35°	279	90°-180° 0 0.0	5	38 35 36	34 36 33	33 28 28	16'	3.2	14.3'	1.6	26.3'	0.3
	45°	141	0°-180° 837 47.8*	6	35 32 34	31 33 31	31 27 26						
	55°	78	* Efficiency	7	32 29 31	28 31 28	28 24 24						
	65°	45		8	30 27 29	27 29 26	26 22 22						
	75°	17		9	28 25 27	24 27 24	24 22 22						
	85°	4		10	26 23 25	23 25 22							
90°	0												

Distribution curve	Distribution data	Output data	Coefficient of utilization	Single luminaire data 30" above floor									
6LB4, 100W A19 lamp, 1.1 s/mh, 1750 rated lumens, test no. 42870C2													
	From 0°	cp. Lumens	Zone Lumens %lamp	rf rc rw	80% 50% 30%	20% 70% 50%	50% 30%	50% 30%	Mount height	Initial fc at beam center	50% Beam angle 55.8°	10% Beam angle 88.5°	
	0°	575	0°-30° 416 23.8	1	52 51 49	48 47 47	47 44 43	8'	19.0	5.8'	9.5	10.7'	1.9
	5°	570	0°-40° 591 33.8	2	48 46 45	44 44 43	43 39 39	10'	10.2	8.0'	5.1	14.6'	1.0
	15°	524	0°-60° 770 44.0	3	44 41 42	40 40 39	39 36 36	12'	6.4	10.1'	3.2	18.5'	0.6
	25°	461	0°-90° 837 47.8	4	41 38 39	37 38 36	36 31 31	14'	4.3	12.2'	2.2	22.4'	0.4
	35°	279	90°-180° 0 0.0	5	38 35 36	34 36 33	33 28 28	16'	3.2	14.3'	1.6	26.3'	0.3
	45°	141	0°-180° 837 47.8*	6	35 32 34	31 33 31	31 27 26						
	55°	78	* Efficiency	7	32 29 31	28 31 28	28 24 24						
	65°	45		8	30 27 29	27 29 26	26 22 22						
	75°	17		9	28 25 27	24 27 24	24 22 22						
	85°	4		10	26 23 25	23 25 22							
90°	0												

ELECTRICAL CHARACTERISTICS

Lamp	120 Volt HPF		277 Volt HPF		347 Volt HPF	
	Maximum current	Input watts	Maximum current	Input watts	Maximum current	Input watts
(1) 9TT	0.140	11.0	0.170	14.0	0.190	15.0
(2) 9TT	0.280	22.0	0.340	28.0	0.380	30.0
(1) 13TT/DTT	0.285	17.0	0.340	22.0	0.330	24.0
(2) 13TT/DTT	0.570	34.0	0.680	44.0	0.660	48.0

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.

Consult factory for additional photometric data.

To calculate light levels for other lamps, multiply the footcandle levels by the ratio of desired-lamp lumens to displayed-lamp lumens.

Example: fc level at nadir for 100W A19 is 19. With a 75W A19, fc level is 19 x (1,210/1,750) or 13 fc.

Incandescent		Compact Fluorescent	
Lamp	Lumens	Lamp	Lumens
150W A21	2,850	26W DTT	1,800
100W A19	1,750	18W DTT	1,250
75W A19	1,210	13W DTT	860
60W A19	870	9W DTT	575
40W A19	460		

