



Store # 66894  
 City Apopka  
 State FL

Total Area in Square Feet  
 (minus bldg., sidewalk, canopies, Garden Ctr., etc.)  
 160,500 Square Feet

Number of Parking Area Entrances  
 3 Entrances

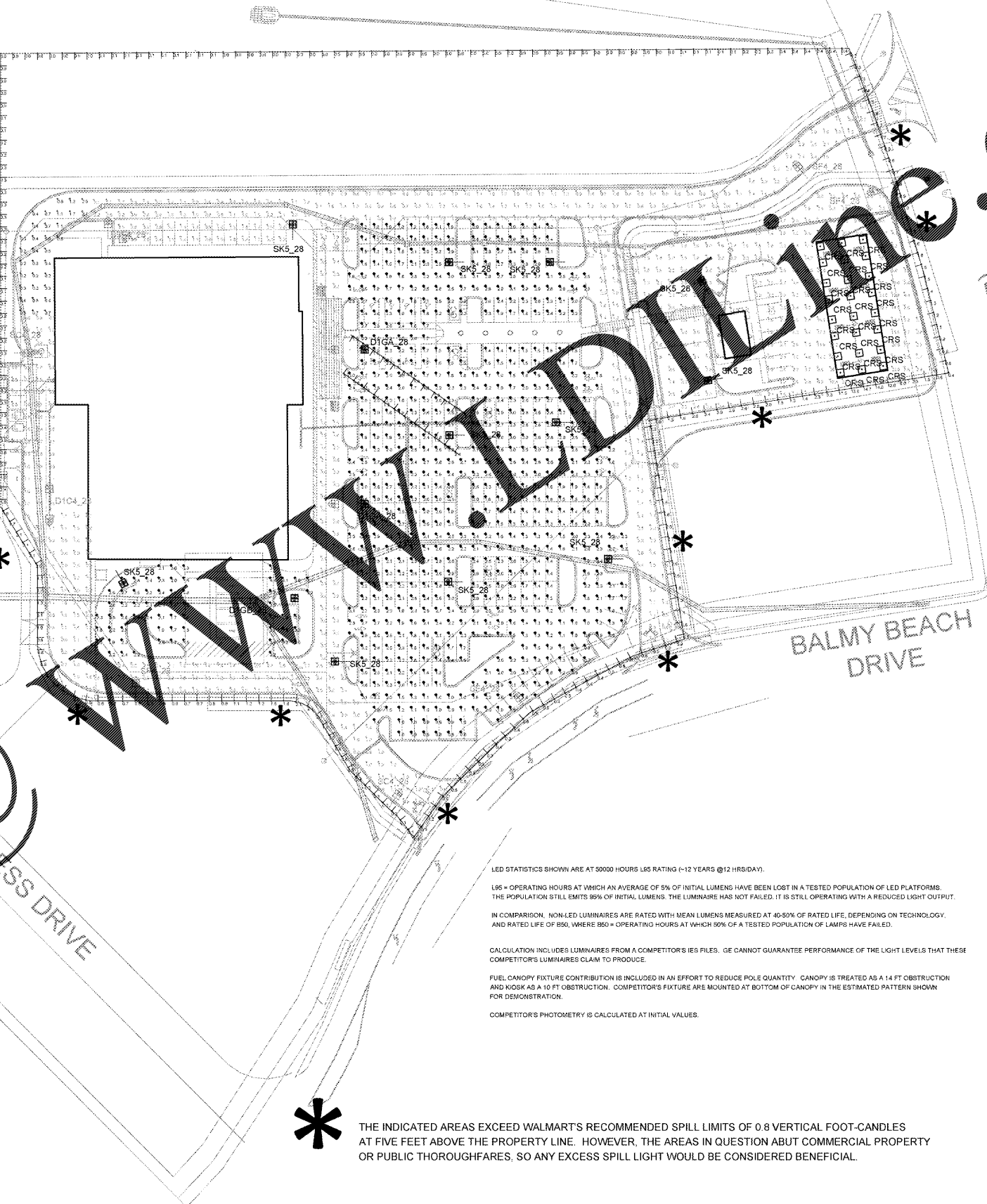
MLO ALLOWANCES	
Allowable Lumens per SqFt Hardscape (Initial)	5 Lumens
Add: Allowable Lumens per Entrance (Initial)	800 Lumens
Add: Lumen Allowance For Entrances (Initial)	1,800 Lumens
Site Total Allowable Lumens (Initial)	804,300 Lumens

Future Type	B-U-G Rating	Luminaires per Pole or # Watt Candles	# Poles for Light Fixture (pole on 30 base)	Watts per Arrangement	Initial Lumens per Arrangement	Total Watts	Total # of Luminaires	Total Lumens
SK5_28	B5-U0-G3	1	11	274	30000	3,014	11	330,000
SF1_28	B2-U0-G3	1	4	136	15000	544	4	60,000
SC4_28	B1-U0-G2	1	2	730	7300	146	2	15,000
D1GA_28	N.A.	2	2	347	37500	694	4	75,000
D3F4_28	B2-U0-G3	2	1	272	30000	272	2	30,000
D1GB_28	N.A.	2	1	410	45000	410	2	45,000
D1C4_28	B1-U0-G2	2	1	146	15000	146	2	15,000
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

PROJECT IS COMPLIANT?	Total Poles	Light Power Density (LPD)	Lumens per Watt (LPW)	Total Watts	Total Luminaires	Total Lumens
YES	22	0.0326	109	5,226	27	570,000

Symbol	Qty	Label	Arrangement	LUF	Description	Alt. Voltage	Alt. Lum. Lumens	Alt. Pole Height
11	11	SK5_28	SINGLE	0.855	1-EALP0150A4F70N02D18L0CF 250 pole on 30 base	274	30000	85-00-03
4	4	SF1_28	SINGLE	0.855	1-EALP0150A4F70N02D18L0CF 250 pole on 30 base	136	15000	82-00-03
2	2	SC4_28	SINGLE	0.855	1-EALP0150A4F70N02D18L0CF 250 pole on 30 base	73	7300	81-00-02
2	2	D1GA_28	GROUP	0.855	1-EALP0150A4F70N02D18L0CF & 1-EALP0150A4F70N02D18L0CF 250 pole on 30 base	347	37500	N.A.
1	1	D3F4_28	2 @ 90 DEGREE	0.428	1-EALP0150A4F70N02D18L0CF 250 pole on 30 base	272	30000	82-00-03
1	1	D1GB_28	GROUP	0.855	1-EALP0150A4F70N02D18L0CF & 1-EALP0150A4F70N02D18L0CF 250 pole on 30 base	410	45000	N.A.
1	1	D1C4_28	BACK-BACK	0.428	2-EALP0150A4F70N02D18L0CF 250 pole on 30 base	146	15000	81-00-02
24	24	CRS	SINGLE	1.000	CRS 50-LED 64-HD CW-L.E. (Competitor)	155	15000	89-00-01

Calculation Summary Illuminance Foot-candles						
Label	Avg	Max	Min	Avg/Min	Max/Min	
DSD, Bale and Pallet	1.06	2.6	0.4	2.65	6.50	
Entry Drive 1	1.38	2.6	0.4	3.45	6.50	
Entry Drive 2	1.64	3.0	0.5	3.28	6.00	
Front Aisle	2.89	3.9	1.6	1.81	2.44	
Fuel Station	6.39	38.8	1.0	6.39	38.80	
Limited Parking	1.93	3.0	0.8	2.41	4.88	
Main Parking	2.10	3.5	0.7	3.00	5.00	
Rear Drive	0.99	2.1	0.2	3.20	10.50	
RX and GMS Drive Thru	2.53	4.7	1.5	1.69	3.13	
Vert Main Parking In @ 5' AFG	1.54	2.3	1.0	1.54	2.30	
Vert Main Parking Out @ 5' AFG	1.98	3.1	1.1	1.80	2.82	
Vert Spill Light @ 5' AFG	0.99	14.7	0.0	N.A.	N.A.	



LED STATISTICS SHOWN ARE AT 50000 HOURS L85 RATING (~12 YEARS @12 HRS/DAY).  
 L85 = OPERATING HOURS AT WHICH AN AVERAGE OF 5% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 95% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.  
 IN COMPARISON, NON-LED LUMINAIRE ARE RATED WITH MEAN LUMENS MEASURED AT 40-50% OF RATED LIFE, DEPENDING ON TECHNOLOGY, AND RATED LIFE OF B50, WHERE B50 = OPERATING HOURS AT WHICH 50% OF A TESTED POPULATION OF LAMPS HAVE FAILED.  
 CALCULATION INCLUDES LUMINAIRE FROM A COMPETITOR'S IES FILES. GE CANNOT GUARANTEE PERFORMANCE OF THE LIGHT LEVELS THAT THESE COMPETITOR'S LUMINAIRE CLAIM TO PRODUCE.  
 FUEL CANOPY FIXTURE CONTRIBUTION IS INCLUDED IN AN EFFORT TO REDUCE POLE QUANTITY. CANOPY IS TREATED AS A 14 FT OBSTRUCTION AND KIOSK AS A 10 FT OBSTRUCTION. COMPETITOR'S FIXTURE ARE MOUNTED AT BOTTOM OF CANOPY IN THE ESTIMATED PATTERN SHOWN FOR DEMONSTRATION.  
 COMPETITOR'S PHOTOMETRY IS CALCULATED AT INITIAL VALUES.

\* THE INDICATED AREAS EXCEED WALMART'S RECOMMENDED SPILL LIMITS OF 0.8 VERTICAL FOOT-CANDLES AT FIVE FEET ABOVE THE PROPERTY LINE. HOWEVER, THE AREAS IN QUESTION ABUT COMMERCIAL PROPERTY OR PUBLIC THOROUGHFARES, SO ANY EXCESS SPILL LIGHT WOULD BE CONSIDERED BENEFICIAL.

General Notes:

General Electric Company  
 GE Lighting Solutions  
 East Flat Rock, NC 28726 USA

GE logo

Provided By:  
 Application Solution Center  
 GE Lighting Solutions  
 3010 Spartanburg Hwy  
 East Flat Rock, NC 28726 USA

Provided For:  
 JASON MAHONEY  
 LOCHRANE  
 WALMART

Calculated light levels and visualizations are based on specific information that has been supplied to GE. Any differences in luminaire installation, lighted area geometry and obstructions in the lighted area may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will affect results.  
 Ref: IES LM-61-1986 Identifying Operating Factors for HID Luminaires

Walmart #66894  
 APOPKA, FL  
 GE EVOLVE EALP LED AREA LIGHT  
 28 FT MOUNTING HEIGHTS  
 TARGET: 2.75 fc AVG 1.5 fc MIN FRONT AISLE  
 2.0 fc AVG 0.75 fc MIN MAIN PARKING  
 .75 fc MIN LIMITED PARKING  
 10'x10' Calculation Grid Spacing  
 HORIZONTAL FC'S AT GRADE-50,000 HOURS OF LIFE

Designer:  
 Richard F. Carpenter  
 GE Layout Reference  
 A160390  
 Sheet: 1 of 1 Date/Time Drawn: 12/15/16 11:09:01  
 Drawing Number: A160390F1 Rev: F1

Order Plans