

The magnitude of the differences between detailed analysis methods and field measurements varies. In general, differences of less than 20% can be expected, but in extreme cases, where a calculation method cannot handle the complexity of the lighting system, they may be greater. A more complete discussion of the uncertainties is available.

ANSIIES L6-6-01
Lighting Science/ Calculation of Light and its Effects

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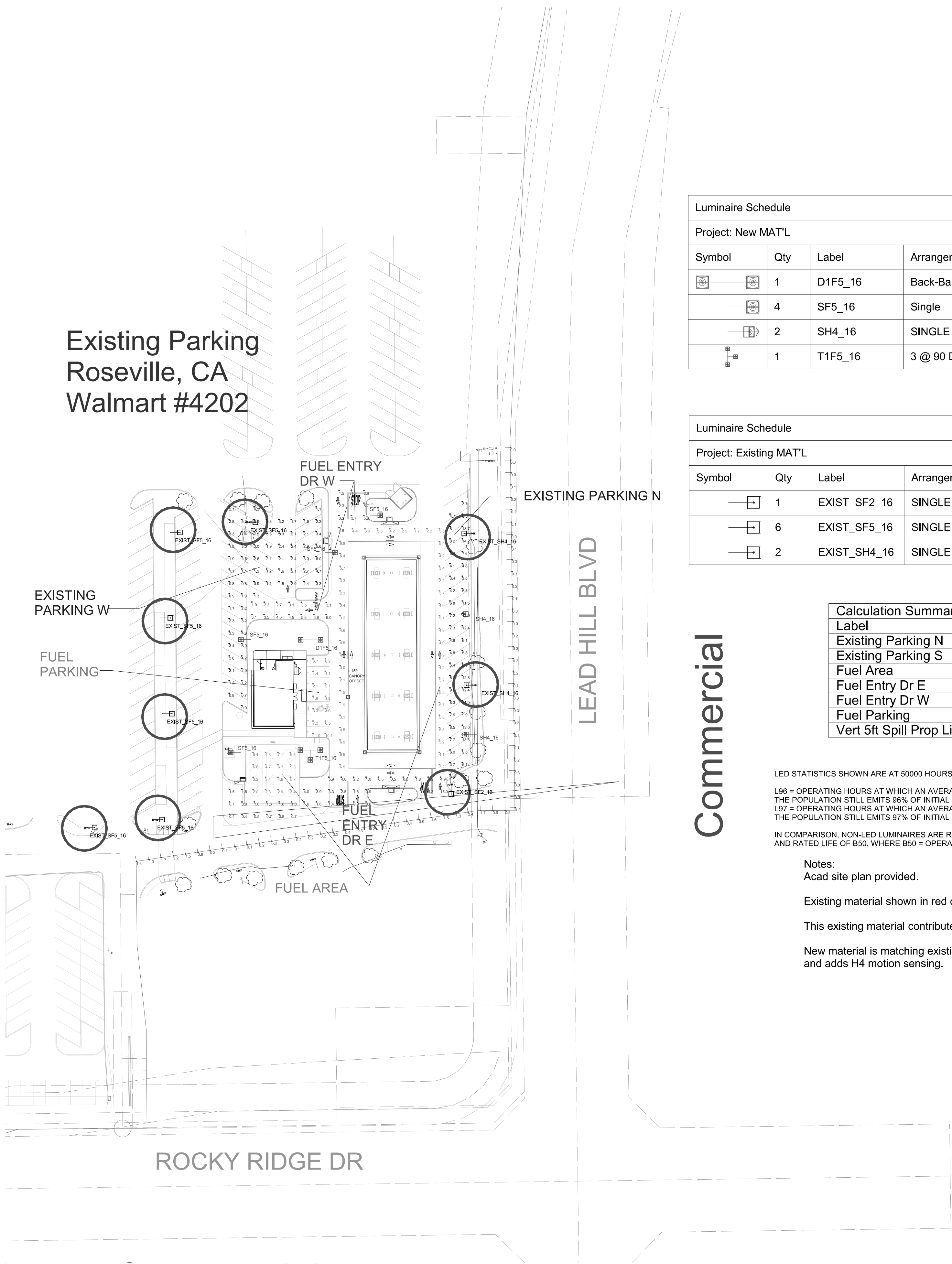
3010 Spartanburg Hwy.,
East Flat Rock, NC 28726

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Date: 1/21/2026

Drawing #: A260102A.AGI

WALMART #4202 FUEL ADD
ROSEVILLE, CA
Evolve LED Area EALS04 5000K 16ft
as new with motion sensing
Existing as contribution
Horizontal FC's at grade
Values at 50000 hours



Scale: 1 inch= 50 Ft.
THIS IS A D SIZE SHEET. THE NOTED SCALE IS NOT VALID IF PRINTED AS ANY OTHER SIZE.

Luminaire Schedule								
Project: New MAT'L								
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	BUG Rating
	1	D1F5_16	Back-Back	0.873	2-EALS045F5SM750NDD1BLCKFH4 13ft pole on 3ft base	182	30898	B4-U0-G2
	4	SF5_16	Single	0.873	1-EALS045F5SM750NDD1BLCKFH4 13ft pole on 3ft base	91	15449	B4-U0-G2
	2	SH4_16	SINGLE	0.864	1-EALS045H4AF750NDD1BLCKFH4 13ft pole on 3ft base	123	20601	B3-U0-G3
	1	T1F5_16	3 @ 90 Degrees	0.873	3-EALS045F5SM750NDD1BLCKFH4 13.ft pole on 3ft base	273	46347	B4-U0-G2

Luminaire Schedule								
Project: Existing MAT'L								
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	BUG Rating
	1	EXIST_SF2_16	SINGLE	0.864	EXISTING 1-EALP035F2AN750NDD1BLCKFH 13ft pole on 3ft base	104	15100	B3-U0-G3
	6	EXIST_SF5_16	SINGLE	0.864	EXISTING 1-EALP035F5SM750NDD1BLCKFH 13ft pole on 3ft base	106	15000	B4-U0-G2
	2	EXIST_SH4_16	SINGLE	0.864	EXISTING 1-EALP035H4AF750NDD1BLCKFH 13ft pole on 3ft base	151	20000	B3-U0-G3

Calculation Summary Illuminance Foot-candles					
Label	Avg	Max	Min	Avg/Min	Max/Min
Existing Parking N	7.71	14.2	3.4	2.27	4.18
Existing Parking S	2.62	7.5	0.7	3.74	10.71
Fuel Area	4.52	9.8	1.5	3.01	6.53
Fuel Entry Dr E	2.17	15.0	0.4	5.43	37.50
Fuel Entry Dr W	3.59	5.9	1.5	2.39	3.93
Fuel Parking	5.03	11.0	1.8	2.79	6.11
Vert 5ft Spill Prop Lines	0.45	2.4	0.0	N.A.	N.A.

LED STATISTICS SHOWN ARE AT 50000 HOURS L96 & L97 RATING (~12 YEARS @ 12 HRS/DAY)

L96 = OPERATING HOURS AT WHICH AN AVERAGE OF 4% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 96% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

L97 = OPERATING HOURS AT WHICH AN AVERAGE OF 3% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 97% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

IN COMPARISON, NON-LED LUMINAIRES 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.

- Notes:
- Acad site plan provided.
 - Existing material shown in red circles is based on A190675A retrofit records at 16ft mounting height.
 - This existing material contributes to the lighting of the new fuel addition.
 - New material is matching existing material as 480V at same 16ft mounting height and adds H4 motion sensing.