

Scale: 1 inch= 80 Ft.

THIS IS A D SIZE SHEET. THE NOTED SCALE IS NOT VALID IF PRINTED AS ANY OTHER SIZE.

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.

Current Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	BUG Rating
	17	T1H5SH_35	3 @ 90 Degrees	0.864	3-EALS045H5SH740NDDBLCKF 32ft pole on 3ft base	369	60000	B5-U0-G3
	12	D1H5SH_35	Back-Back	0.864	2-EALS045H5SH740NDDBLCKF 32ft pole on 3ft base	246	40000	B5-U0-G3
	6	D2H4_35_B	ROTATED OPTICS	0.864	1-EALS042H4AF740NDD1BLCKFS1 & 1-EALS042H4AF740NDD1BLCKFS2 w/ 2-ELS-EAL-FBL-BLCK 32ft pole on 3ft base	246	38000	B2-U0-G3
	4	SD2_35_B	Single	0.873	1-EALS045D2AN740NDD1BLCKF w/1-ELS-EAL-ABL-BLCK 32ft pole on 3ft base	63	9900	B1-U0-G2
	3	SF4_35_B	Single	0.873	1-EALS042F4AF740NDD1BLCKF w/ 1-ELS-EAL-RBL-BLCK 32ft pole on 3ft base	96	14100	B2-U0-G3
	2	D1F4_35	Back-Back	0.873	2-EALS045F4AF740NDD1BLCKF 32ft pole on 3ft base	192	30900	B3-U0-G3
	2	SD2_35	Single	0.873	1-EALS045D2AN740NDD1BLCKF 32ft pole on 3ft base	63	10900	B2-U0-G2
	2	SF4_35	SINGLE	0.873	1-EALS045F4AF740NDD1BLCKF 32ft pole on 3ft base	96	15450	B3-U0-G3
	2	SH4_35_B	Single	0.864	1-EALS042H4AF740NDD1BLCKF w/ 1- ELS-EAL-FBL-BLCK 32ft pole on 3ft base	123	19000	B2-U0-G3

Calculation Summary Illuminance Foot-candles

Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts
Bale Pallet DSD Path	3.29	5.7	1.6	2.06	3.56	127
Entry Dr Front	1.18	2.8	0.4	2.95	7.00	59
Entry Dr Puffin	1.60	5.0	0.4	4.00	12.50	535
Entry Dr Rear	1.65	2.9	0.5	3.30	5.80	52
Entry Dr Side	3.36	5.2	0.5	6.72	10.40	82
Front Aisle	3.20	4.3	2.7	1.19	1.59	171
Front Sidewalk	2.36	3.4	2.1	1.12	1.62	59
OPD Assoc Walkway	3.36	4.7	1.7	1.98	2.76	16
OPD Parking	3.12	5.1	1.9	1.64	2.68	216
Outer Dr Left	2.52	5.1	1.0	2.52	5.10	153
Outer Dr Right	3.31	4.9	1.8	1.84	2.72	40
Parking Left	3.37	5.9	2.2	1.53	2.68	54
Parking Main	3.06	4.4	0.8	3.83	5.50	2181
Parking Right	3.34	5.2	1.5	2.23	3.47	110
Rear Area Left	1.60	4.3	0.2	8.00	21.50	191
Rear Area Right	2.02	6.6	0.5	4.04	13.20	163
RX Drive Thru	3.14	4.3	1.8	1.74	2.39	33
TLE	3.24	5.2	1.6	2.03	3.25	40
Vert 5ft parking IN	2.29	3.2	1.6	1.43	2.00	16
Vert 5ft parking OUT	2.49	3.1	2.1	1.19	1.48	16
Vert 5ft Spill Prop Line Front	0.03	0.4	0.0	N.A.	N.A.	124
Vert 5ft Spill Prop Line Left	0.00	0.0	0.0	N.A.	N.A.	137
Vert 5ft Spill Prop Line Rear	0.00	0.0	0.0	N.A.	N.A.	130
Vert 5ft Spill Prop Line Right	0.18	1.0	0.0	N.A.	N.A.	140

Notes:

Acad Site plan provided.

Local ordinance applied: 4000K, full cutoff, shields, 20000 max fixture lumens, 0.5fc max spill at residential and 1.0fc max spill otherwise.

Trees at provided 10 year mature size obstructions blocking light are included in this calc.

Spill over 0.8fc marked with red (*) allowed as beneficial light to adjacent intersection, crosswalk & sidewalk and is not in a residential direction.

Enhanced lighting applied after local ordnance noted above.

Current

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.

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Lighting Science: Calculation of Light and Its Effects

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RETAIL #90399
ST CLOUD, FL
Evolve LED Area EALS04 4000K @ 35ft
local ordiance, trees
& enhanced lighting applied
Horizontal FC's at grade & vert at 5ft
Values at 50000 hours