



LIGHTING ANALYSIS

LYONS ROAD PEDESTRIAN LIGHTING IMPROVEMENTS

Prepared For



City of Coconut Creek
4800 W. Copans Road
Coconut Creek, FL 33063

Prepared By

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Deerfield Beach, FL 33442
(954) 972-3959

June 27, 2019

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Florida Registration No. 35941

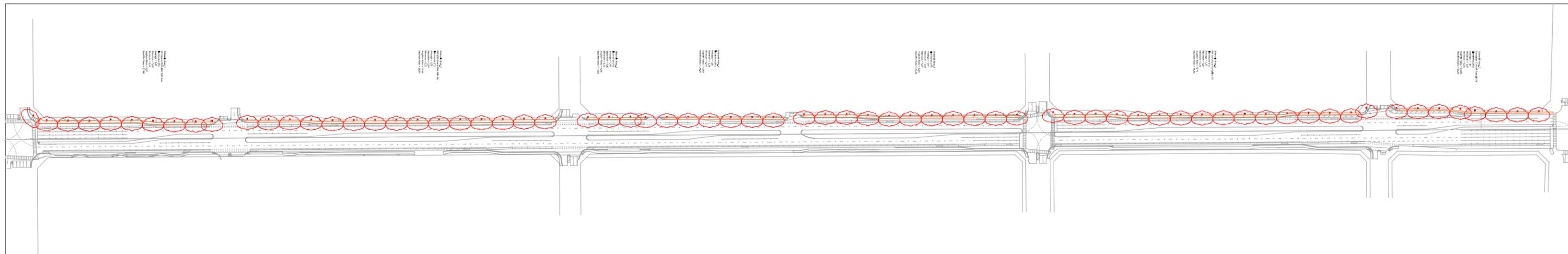


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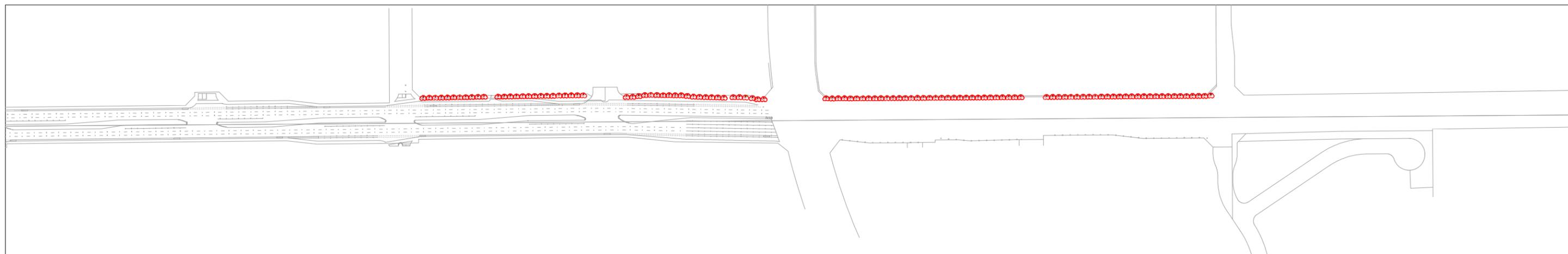
- **PHOTOMETRICS**
- **VOLTAGE DROP CALCULATIONS**
- **LIGHTING FIXTURES**
- **COST ESTIMATE**



PHOTOMETRICS



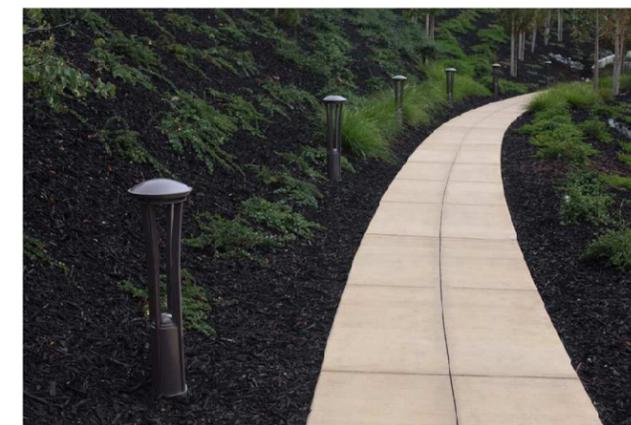
W Copans to W Sample Rd
Scale: 1 inch= 150 Ft.



Alcott Path Lights
Scale: 1 inch= 150 Ft.

Calculation Summary								
Label	Description	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Sidewalk Area_1	W Copans Rd to NW 25th Ave	Illuminance	Fc	1.57	3.45	0.16	9.81	21.56
Sidewalk Area_2	NW 25th Ave to NW 30th St.	Illuminance	Fc	1.63	3.44	0.12	13.58	28.67
Sidewalk Area_3		Illuminance	Fc	1.78	3.40	0.32	5.56	10.63
Sidewalk Area_4		Illuminance	Fc	1.49	3.39	0.14	10.64	24.21
Sidewalk Area_5		Illuminance	Fc	1.57	3.45	0.17	9.24	20.29
Sidewalk Area_6	NW 34th St. to Cocoplum Cir	Illuminance	Fc	1.57	3.41	0.18	8.72	18.94
Sidewalk Area_7	Cocoplum Cir to W Sample Rd	Illuminance	Fc	1.67	3.41	0.05	33.40	68.20

Luminaire Schedule						
Symbol	Label	Qty	Description	Lum. Lumens	Lum. Watts	LLF
+	HW1	110	Hawthorne Path Light (HW-006L4-035F-30K-UV1-SM)	340	7.728	0.980
-	AC1	70	Alcott Area Light (AC-048L3-035F-30K-UV1-12)	2716	57.28	0.980




 7800 E. Michigan Ave.
 Kalamazoo, MI 49048
 800.430.6209
 landscapeforms.com

Lyons Rd - Coconut Creek
This drawing shows suggested fixtures and mounting locations based on the information provided. Landscape Forms assumes no responsibility for variation of light levels that result from changes in parameters not reported at the time of design.

Completed By: CG	Comments: - Direct horizontal illuminance measured at grade in footcandles. - Calculations from Landscape Forms fixtures only. - Base zip file: "Coconut Creek Pedestrian Lighting" - Lyons Rd: W Copans to Hilton Rd		
Checked By: AH			
Date: 3/29/2019			
AGI32 Version 19.5.18	Filename: ILP474_RevC.AGI	Revision C	Page 1 of 1



VOLTAGE DROP CALCULATIONS



SIDEWALK LIGHTING VOLTAGE DROP CALCULATIONS

Project Number: **181201** County: **Broward** Service Voltage: **240**
 Roadway Name: **Lyons Rd** Prepared By: **TC** Temp. for Wire Resistance: **75**
 Project Description: **Proposed Lighting** Checked By: **FV**
 Date: **4/29/2019**

60 CYCLE AC RESISTANCE ONE WIRE (CU)			
WIRE SIZE (#AWG)	25 Deg. C. (OHMS/FT)	40 Deg. C. (OHMS/FT)	75 Deg. C. (OHMS/FT)
1/0			0.0001200
8	0.00065400	0.00069200	0.00080900
6	0.00041000	0.00043350	0.00051000
4	0.00025900	0.00027400	0.00032100
2	0.00016200	0.00017150	0.00020100
1	0.00010210	0.00010811	0.00015400

Load center/power source along LYONS RD
 Service: 120/240 V, 1 phase, 3 Wire

ANALYSIS FOR CIRCUIT "A-1"
LOAD CENTER "A", Sta. 159+01

INPUT DATA						CALCULATED RESULTS					
FIXTURE TO FIXTURE	WIRE LENGTH (FEET) (L)	WIRE SIZE (AWG)	NUMBER OF WIRES CONDUCTORS	FIXTURE SIZE (Watts)	NUMBER OF FIXTURES	CONDUCTOR RESISTANCE (r)	FIXTURE AMPERAGE (i)	SEGMENT RESISTANCE (R=L*r)	TOTAL AMPERAGE (I)	SEGMENT VOLTAGE DROP (V=i*R)	ACCUMULATED VOLTAGE DROP (V1+V2+...)
Load Center "A" to Pole 36	44	4	2	57.4	1	0.00032100	0.35	0.0282	12.60	0.36	0.36
Pole 35	70	4	2	57.4	1	0.00032100	0.35	0.0449	12.25	0.55	0.91
Pole 34	101	4	2	57.4	1	0.00032100	0.35	0.0648	11.90	0.77	1.68
Pole 33	70	4	2	57.4	1	0.00032100	0.35	0.0449	11.55	0.52	2.20
Pole 32	70	4	2	57.4	1	0.00032100	0.35	0.0449	11.20	0.50	2.70
Pole 31	70	4	2	57.4	1	0.00032100	0.35	0.0449	10.85	0.49	3.19
Pole 30	70	4	2	57.4	1	0.00032100	0.35	0.0449	10.50	0.47	3.66
Pole 29	70	4	2	57.4	1	0.00032100	0.35	0.0449	10.15	0.46	4.12
Pole 28	71	4	2	57.4	1	0.00032100	0.35	0.0456	9.80	0.45	4.56
Pole 27	50	4	2	57.4	1	0.00032100	0.35	0.0321	9.45	0.30	4.87
Pole 26	70	4	2	57.4	1	0.00032100	0.35	0.0449	9.10	0.41	5.28
Pole 25	70	4	2	57.4	1	0.00032100	0.35	0.0449	8.75	0.39	5.67
Pole 24	140	4	2	57.4	1	0.00032100	0.35	0.0899	8.40	0.75	6.42
Pole 23	70	4	2	57.4	1	0.00032100	0.35	0.0449	8.05	0.36	6.79
Pole 22	70	4	2	57.4	1	0.00032100	0.35	0.0449	7.70	0.35	7.13
Pole 21	70	4	2	57.4	1	0.00032100	0.35	0.0449	7.35	0.33	7.46
Pole 20	70	4	2	57.4	1	0.00032100	0.35	0.0449	7.00	0.31	7.78
Pole 19	70	4	2	57.4	1	0.00032100	0.35	0.0449	6.65	0.30	8.07
Pole 18	70	4	2	57.4	1	0.00032100	0.35	0.0449	6.30	0.28	8.36
Pole 17	70	4	2	57.4	1	0.00032100	0.35	0.0449	5.95	0.27	8.63
Pole 16	70	4	2	57.4	1	0.00032100	0.35	0.0449	5.60	0.25	8.88
Pole 15	70	4	2	57.4	1	0.00032100	0.35	0.0449	5.25	0.24	9.11
Pole 14	70	4	2	57.4	1	0.00032100	0.35	0.0449	4.90	0.22	9.33
Pole 13	70	4	2	57.4	1	0.00032100	0.35	0.0449	4.55	0.20	9.54
Pole 12	70	4	2	57.4	1	0.00032100	0.35	0.0449	4.20	0.19	9.73
Pole 11	70	4	2	57.4	1	0.00032100	0.35	0.0449	3.85	0.17	9.90
Pole 10	70	4	2	57.4	1	0.00032100	0.35	0.0449	3.50	0.16	10.06
Pole 9	117	4	2	57.4	1	0.00032100	0.35	0.0751	3.15	0.24	10.29
Pole 8	55	4	2	57.4	1	0.00032100	0.35	0.0353	2.80	0.10	10.39
Pole 7	70	4	2	57.4	1	0.00032100	0.35	0.0449	2.45	0.11	10.50
Pole 6	70	4	2	57.4	1	0.00032100	0.35	0.0449	2.10	0.09	10.60
Pole 5	70	4	2	57.4	1	0.00032100	0.35	0.0449	1.75	0.08	10.68
Pole 4	70	4	2	57.4	1	0.00032100	0.35	0.0449	1.40	0.06	10.74
Pole 3	70	4	2	57.4	1	0.00032100	0.35	0.0449	1.05	0.05	10.79
Pole 2	70	4	2	57.4	1	0.00032100	0.35	0.0449	0.70	0.03	10.82
Pole 1	70	4	2	57.4	1	0.00032100	0.35	0.0449	0.35	0.02	10.83

MAXIMUM VOLTAGE DROP:	10.83
PERCENT VOLTAGE DROP:	4.51%
CONDUCTOR SIZE:	O.K.



SIDEWALK LIGHTING VOLTAGE DROP CALCULATIONS

Project Number: **181201** County: **Broward** Service Voltage: **240**
 Roadway Name: **Lyons Rd** Prepared By: **TC** Temp. for Wire Resistance: **75**
 Project Description: **Proposed Lighting** Checked By: **FV**
 Date: **4/29/2019**

WIRE SIZE (#AWG)	25 Deg. C. (OHMS/FT)	40 Deg. C. (OHMS/FT)	75 Deg. C. (OHMS/FT)
1/0			0.00012200
8	0.00065400	0.00069200	0.00080900
6	0.00041000	0.00043350	0.00051000
4	0.00025900	0.00027400	0.00032100
2	0.00016200	0.00017150	0.00020100
1	0.00010210	0.00010811	0.00015400

Load center/power source along LYONS RD
 Service: 120/240 V, 1 phase, 3 Wire

ANALYSIS FOR CIRCUIT "B-1"
LOAD CENTER "B", Sta. 224+92

INPUT DATA						CALCULATED RESULTS					
FIXTURE TO FIXTURE	WIRE LENGTH (FEET) (L)	WIRE SIZE (AWG)	NUMBER OF WIRES CONDUCTORS	FIXTURE SIZE (Watts)	NUMBER OF FIXTURES	CONDUCTOR RESISTANCE (r)	FIXTURE AMPERAGE (i)	SEGMENT RESISTANCE (R=L*r)	TOTAL AMPERAGE (I)	SEGMENT VOLTAGE DROP (V=I*R)	ACCUMULATED VOLTAGE DROP (V1+V2+...)
Load Center "B" to Pole 115	5	6	2	7.8	1	0.00051000	0.35	0.0051	16.10	0.08	0.08
Pole 114	20	6	2	7.8	1	0.00051000	0.35	0.0204	15.75	0.32	0.40
Pole 113	20	6	2	7.8	1	0.00051000	0.35	0.0204	15.40	0.31	0.72
Pole 112	31	6	2	7.8	1	0.00051000	0.35	0.0316	15.05	0.48	1.19
Pole 111	20	6	2	7.8	1	0.00051000	0.35	0.0204	14.70	0.30	1.49
Pole 110	20	6	2	7.8	1	0.00051000	0.35	0.0204	14.35	0.29	1.79
Pole 109	20	6	2	7.8	1	0.00051000	0.35	0.0204	14.00	0.29	2.07
Pole 108	20	6	2	7.8	1	0.00051000	0.35	0.0204	13.65	0.28	2.35
Pole 107	20	6	2	7.8	1	0.00051000	0.35	0.0204	13.30	0.27	2.62
Pole 106	20	6	2	7.8	1	0.00051000	0.35	0.0204	12.95	0.26	2.89
Pole 105	20	6	2	7.8	1	0.00051000	0.35	0.0204	12.60	0.26	3.14
Pole 104	20	6	2	7.8	1	0.00051000	0.35	0.0204	12.25	0.25	3.39
Pole 103	20	6	2	7.8	1	0.00051000	0.35	0.0204	11.90	0.24	3.64
Pole 102	20	6	2	7.8	1	0.00051000	0.35	0.0204	11.55	0.24	3.87
Pole 101	20	6	2	7.8	1	0.00051000	0.35	0.0204	11.20	0.23	4.10
Pole 100	20	6	2	7.8	1	0.00051000	0.35	0.0204	10.85	0.22	4.32
Pole 99	20	6	2	7.8	1	0.00051000	0.35	0.0204	10.50	0.21	4.53
Pole 98	20	6	2	7.8	1	0.00051000	0.35	0.0204	10.15	0.21	4.74
Pole 97	20	6	2	7.8	1	0.00051000	0.35	0.0204	9.80	0.20	4.94
Pole 96	20	8	2	7.8	1	0.00080900	0.35	0.0324	9.45	0.31	5.25
Pole 95	172	8	2	7.8	1	0.00080900	0.35	0.2783	9.10	2.53	7.78
Pole 94	20	8	2	7.8	1	0.00080900	0.35	0.0324	8.75	0.28	8.06
Pole 93	20	8	2	7.8	1	0.00080900	0.35	0.0324	8.40	0.27	8.34
Pole 92	20	8	2	7.8	1	0.00080900	0.35	0.0324	8.05	0.26	8.60
Pole 91	20	8	2	7.8	1	0.00080900	0.35	0.0324	7.70	0.25	8.84
Pole 90	20	8	2	7.8	1	0.00080900	0.35	0.0324	7.35	0.24	9.08
Pole 89	20	8	2	7.8	1	0.00080900	0.35	0.0324	7.00	0.23	9.31
Pole 88	20	8	2	7.8	1	0.00080900	0.35	0.0324	6.65	0.22	9.52
Pole 87	20	8	2	7.8	1	0.00080900	0.35	0.0324	6.30	0.20	9.73
Pole 86	20	8	2	7.8	1	0.00080900	0.35	0.0324	5.95	0.19	9.92
Pole 85	20	8	2	7.8	1	0.00080900	0.35	0.0324	5.60	0.18	10.10
Pole 84	20	8	2	7.8	1	0.00080900	0.35	0.0324	5.25	0.17	10.27
Pole 83	20	8	2	7.8	1	0.00080900	0.35	0.0324	4.90	0.16	10.43
Pole 82	20	8	2	7.8	1	0.00080900	0.35	0.0324	4.55	0.15	10.58
Pole 81	20	8	2	7.8	1	0.00080900	0.35	0.0324	4.20	0.14	10.71
Pole 80	47	8	2	7.8	1	0.00080900	0.35	0.0760	3.85	0.29	11.01
Pole 79	20	8	2	7.8	1	0.00080900	0.35	0.0324	3.50	0.11	11.12
Pole 78	20	8	2	7.8	1	0.00080900	0.35	0.0324	3.15	0.10	11.22
Pole 77	20	8	2	7.8	1	0.00080900	0.35	0.0324	2.80	0.09	11.31
Pole 76	20	8	2	7.8	1	0.00080900	0.35	0.0324	2.45	0.08	11.39
Pole 75	20	8	2	7.8	1	0.00080900	0.35	0.0324	2.10	0.07	11.46
Pole 74	20	8	2	7.8	1	0.00080900	0.35	0.0324	1.75	0.06	11.52
Pole 73	20	8	2	7.8	1	0.00080900	0.35	0.0324	1.40	0.05	11.56
Pole 72	20	8	2	7.8	1	0.00080900	0.35	0.0324	1.05	0.03	11.60
Pole 71	20	8	2	7.8	1	0.00080900	0.35	0.0324	0.70	0.02	11.62
Pole 70	20	8	2	7.8	1	0.00080900	0.35	0.0324	0.35	0.01	11.63

MAXIMUM VOLTAGE DROP: 11.63
PERCENT VOLTAGE DROP: 4.85%
CONDUCTOR SIZE: O.K.



SIDEWALK LIGHTING VOLTAGE DROP CALCULATIONS

Project Number: **181201** County: **Broward** Service Voltage: **240**
 Roadway Name: **Lyons Rd** Prepared By: **TC** Temp. for Wire Resistance: **75**
 Project Description: **Proposed Lighting** Checked By: **FV**
 Date: **4/29/2019**

Load center/power source along LYONS RD
 Service: 120/240 V, 1 phase, 3 Wire

**ANALYSIS FOR CIRCUIT "B-2"
LOAD CENTER "B", Sta. 224+92**

60 CYCLE AC RESISTANCE ONE WIRE (CU)			
WIRE SIZE (#AWG)	25 Deg. C. (OHMS/FT)	40 Deg. C. (OHMS/FT)	75 Deg. C. (OHMS/FT)
1/0			0.0001200
8	0.00065400	0.00069200	0.00080900
6	0.00041000	0.00043350	0.00051000
4	0.00025900	0.00027400	0.00032100
2	0.00016200	0.00017150	0.00020100
1	0.00010210	0.00010811	0.00015400

INPUT DATA						CALCULATED RESULTS					
FIXTURE TO FIXTURE	WIRE LENGTH (FEET) (L)	WIRE SIZE (AWG)	NUMBER OF WIRES (CONDUCTORS)	FIXTURE SIZE (Watts)	NUMBER OF FIXTURES	CONDUCTOR RESISTANCE (r)	FIXTURE AMPERAGE (I)	SEGMENT RESISTANCE (R=L*r)	TOTAL AMPERAGE (I)	SEGMENT VOLTAGE DROP (V=I*R)	ACCUMULATED VOLTAGE DROP (V1+V2+...)
Load Center "B" to Pole 116	20	2	2	7.8	1	0.00020100	0.35	0.0080	21.70	0.17	0.17
Pole 117	20	2	2	7.8	1	0.00020100	0.35	0.0080	21.35	0.17	0.35
Pole 118	20	2	2	7.8	1	0.00020100	0.35	0.0080	21.00	0.17	0.51
Pole 119	207	2	2	7.8	1	0.00020100	0.35	0.0832	20.65	1.72	2.23
Pole 120	20	4	2	7.8	1	0.00032100	0.35	0.0128	20.30	0.26	2.49
Pole 121	20	4	2	7.8	1	0.00032100	0.35	0.0128	19.95	0.26	2.75
Pole 122	20	4	2	7.8	1	0.00032100	0.35	0.0128	19.60	0.25	3.00
Pole 123	20	4	2	7.8	1	0.00032100	0.35	0.0128	19.25	0.25	3.25
Pole 124	20	4	2	7.8	1	0.00032100	0.35	0.0128	18.90	0.24	3.49
Pole 125	20	4	2	7.8	1	0.00032100	0.35	0.0128	18.55	0.24	3.73
Pole 126	20	4	2	7.8	1	0.00032100	0.35	0.0128	18.20	0.23	3.96
Pole 127	20	4	2	7.8	1	0.00032100	0.35	0.0128	17.85	0.23	4.19
Pole 128	20	4	2	7.8	1	0.00032100	0.35	0.0128	17.50	0.22	4.42
Pole 129	20	4	2	7.8	1	0.00032100	0.35	0.0128	17.15	0.22	4.64
Pole 130	20	4	2	7.8	1	0.00032100	0.35	0.0128	16.80	0.22	4.85
Pole 131	20	4	2	7.8	1	0.00032100	0.35	0.0128	16.45	0.21	5.06
Pole 132	20	4	2	7.8	1	0.00032100	0.35	0.0128	16.10	0.21	5.27
Pole 133	20	4	2	7.8	1	0.00032100	0.35	0.0128	15.75	0.20	5.47
Pole 134	20	4	2	7.8	1	0.00032100	0.35	0.0128	15.40	0.20	5.67
Pole 135	20	4	2	7.8	1	0.00032100	0.35	0.0128	15.05	0.19	5.86
Pole 136	20	4	2	7.8	1	0.00032100	0.35	0.0128	14.70	0.19	6.05
Pole 137	20	4	2	7.8	1	0.00032100	0.35	0.0128	14.35	0.18	6.24
Pole 138	20	4	2	7.8	1	0.00032100	0.35	0.0128	14.00	0.18	6.42
Pole 139	20	4	2	7.8	1	0.00032100	0.35	0.0128	13.65	0.18	6.59
Pole 140	20	4	2	7.8	1	0.00032100	0.35	0.0128	13.30	0.17	6.76
Pole 141	20	4	2	7.8	1	0.00032100	0.35	0.0128	12.95	0.17	6.93
Pole 142	20	4	2	7.8	1	0.00032100	0.35	0.0128	12.60	0.16	7.09
Pole 143	20	4	2	7.8	1	0.00032100	0.35	0.0128	12.25	0.16	7.25
Pole 144	20	4	2	7.8	1	0.00032100	0.35	0.0128	11.90	0.15	7.40
Pole 145	20	4	2	7.8	1	0.00032100	0.35	0.0128	11.55	0.15	7.55
Pole 146	20	4	2	7.8	1	0.00032100	0.35	0.0128	11.20	0.14	7.69
Pole 147	20	4	2	7.8	1	0.00032100	0.35	0.0128	10.85	0.14	7.83
Pole 148	20	4	2	7.8	1	0.00032100	0.35	0.0128	10.50	0.13	7.97
Pole 149	20	4	2	7.8	1	0.00032100	0.35	0.0128	10.15	0.13	8.10
Pole 150	20	4	2	7.8	1	0.00032100	0.35	0.0128	9.80	0.13	8.22
Pole 151	125	4	2	7.8	1	0.00032100	0.35	0.0803	9.45	0.76	8.98
Pole 152	20	4	2	7.8	1	0.00032100	0.35	0.0128	9.10	0.12	9.10
Pole 153	20	4	2	7.8	1	0.00032100	0.35	0.0128	8.75	0.11	9.21
Pole 154	20	4	2	7.8	1	0.00032100	0.35	0.0128	8.40	0.11	9.32
Pole 155	20	4	2	7.8	1	0.00032100	0.35	0.0128	8.05	0.10	9.42
Pole 156	20	4	2	7.8	1	0.00032100	0.35	0.0128	7.70	0.10	9.52
Pole 157	20	4	2	7.8	1	0.00032100	0.35	0.0128	7.35	0.09	9.62
Pole 158	20	4	2	7.8	1	0.00032100	0.35	0.0128	7.00	0.09	9.71
Pole 159	20	4	2	7.8	1	0.00032100	0.35	0.0128	6.65	0.09	9.79
Pole 160	20	4	2	7.8	1	0.00032100	0.35	0.0128	6.30	0.08	9.87
Pole 161	20	4	2	7.8	1	0.00032100	0.35	0.0128	5.95	0.08	9.95
Pole 162	20	4	2	7.8	1	0.00032100	0.35	0.0128	5.60	0.07	10.02
Pole 163	20	4	2	7.8	1	0.00032100	0.35	0.0128	5.25	0.07	10.09
Pole 164	20	4	2	7.8	1	0.00032100	0.35	0.0128	4.90	0.06	10.15
Pole 165	20	4	2	7.8	1	0.00032100	0.35	0.0128	4.55	0.06	10.21
Pole 166	20	4	2	7.8	1	0.00032100	0.35	0.0128	4.20	0.05	10.26
Pole 167	20	4	2	7.8	1	0.00032100	0.35	0.0128	3.85	0.05	10.31
Pole 168	20	4	2	7.8	1	0.00032100	0.35	0.0128	3.50	0.04	10.36
Pole 169	20	4	2	7.8	1	0.00032100	0.35	0.0128	3.15	0.04	10.40
Pole 170	20	4	2	7.8	1	0.00032100	0.35	0.0128	2.80	0.04	10.43
Pole 171	20	4	2	7.8	1	0.00032100	0.35	0.0128	2.45	0.03	10.47
Pole 172	20	4	2	7.8	1	0.00032100	0.35	0.0128	2.10	0.03	9.82
Pole 173	20	4	2	7.8	1	0.00032100	0.35	0.0128	1.75	0.02	9.84
Pole 174	20	4	2	7.8	1	0.00032100	0.35	0.0128	1.40	0.02	9.44
Pole 175	20	4	2	7.8	1	0.00032100	0.35	0.0128	1.05	0.01	9.45
Pole 176	20	4	2	7.8	1	0.00032100	0.35	0.0128	0.70	0.01	9.46
Pole 177	20	4	2	7.8	1	0.00032100	0.35	0.0128	0.35	0.00	9.47

MAXIMUM VOLTAGE DROP: 10.47
PERCENT VOLTAGE DROP: 4.36%
CONDUCTOR SIZE: O.K.



Loads and Breaker Sizes

Project Number:	181201	County :	Broward
Roadway Name:	Lyons Rd	Prepared By :	TC
Project Description :	Proposed Lighting	Checked By:	FV
		Date:	4/29/2019

Service Type: 120/240 V, 1 phase, 3 wire				
	Breaker sizes	Demand Load (Amps)	Design Load (Amps)	Design (Volt Amps)
Main breaker	100 Amps			
Branch Ckt Bkr				
CKT A-1	30	12.6	15.8	3780
CKT A-2	30	11.6	14.4	3465
CKT B-1	30	16.1	20.1	4830
CKT B-2	30	21.7	27.1	6510
Totals		62.0	77.4	18585
Connected Load (KVA)		14.9		
Overcurrent Design Load (KVA)		18.6		



LIGHTING FIXTURES

ALCOTT AREA LIGHT

Product Data Sheet



The Alcott area light is a contemporary interpretation of a traditional lamppost. Its gently curved posts are topped by a domed energy-efficient LED luminaire sealed with thermoformed lens. Proprietary AWEN™ optics combined with multiple aiming angles provide directional lighting, reducing light pollution and wasted energy.

General Description

- Offered in 3 standard mounting heights (12', 14', and 16')
- Asymmetrical and symmetrical distribution types available
- Mounting template and anchor hardware included
- Alcott ships completely assembled and ready for installation
- Zero up-light, International Dark-Sky approved
- UL Listed, suitable for wet locations

Electrical

Surge protected 100V-277V 50/60 Hz, Class 2 dimmable driver mounted within integrated cast aluminum base cabinet. LED cartridge with weatherproof quick-disconnect provides ease of serviceability. Alcott ships prewired and fully assembled.

Alcott Type 3

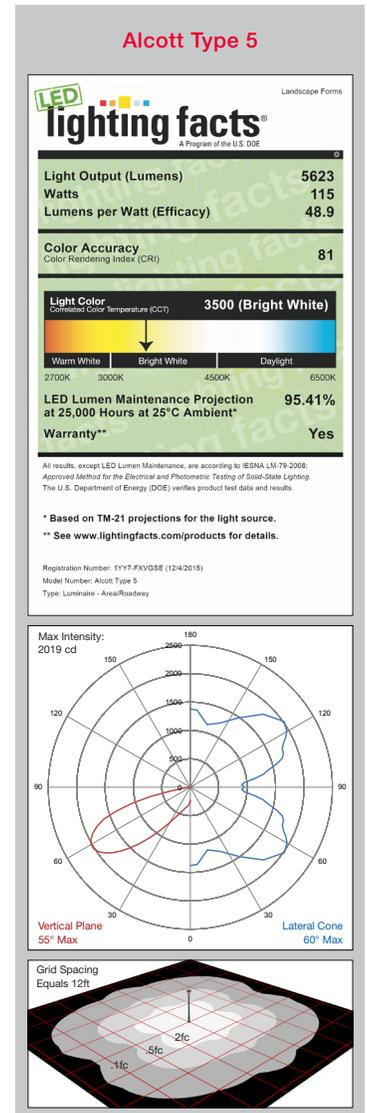
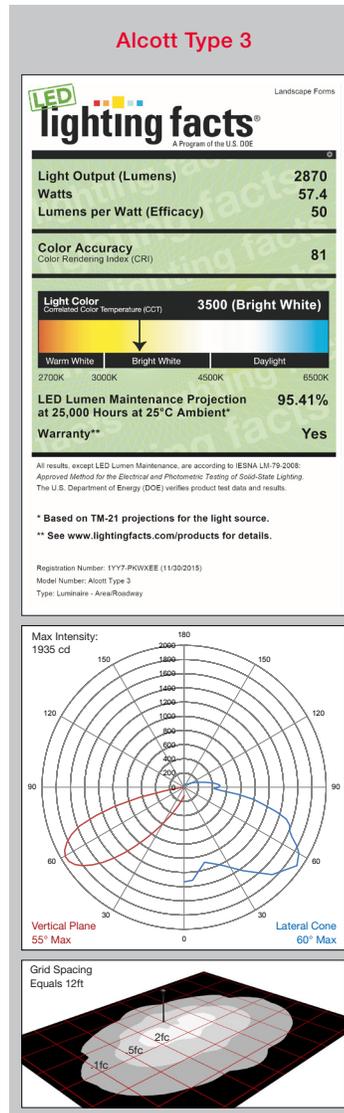
Type 3 Distribution

Structure: Housing, LED cartridge and cabinet are cast aluminum, pole is aluminum extrusion.
 Lamp: 48 Cree XP-E2 LEDs
 CCT: 3000K, 3500K, 4000K
 Drive Current: 350mA
 Optic: AWEN™ Optic
 Lens: Diffused Acrylite®
 Power Supply: 100V-277V
 LED Driver: TRP PLED-75W
 Dimmable: 0-10V
 BUG Rating: B0 U0 G1
 IP Rating: IP66 for LED Cartridge

Alcott Type 5

Type 5 Distribution

Structure: Housing, LED cartridge and cabinet are cast aluminum, pole is aluminum extrusion.
 Lamp: 96 Cree XP-E2 LEDs
 CCT: 3000K, 3500K, 4000K
 Drive Current: 350mA
 Optic: AWEN™ Optic
 Lens: Diffused Acrylite®
 Power Supply: 100V-277V
 LED Driver: (2) TRP PLED-75W
 Dimmable: 0-10V
 BUG Rating: B3 U0 G1
 IP Rating: IP66 for LED Cartridge



ALCOTT AREA LIGHT

Product Data Sheet



Finish

Pangard II®, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order

Specify: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Mounting Height, and Powdercoat Color.

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Mounting
AC Alcott	048L3 (48 LED, Type 3)	035F (350 mA)	40K (4000K)	UV1 (100-277VAC)	12 (144in)
	096L5 (96 LED, Type 5)		35K (3500K)		14 (168in)
			30K (3000K)		16 (192in)

EXAMPLE: AC – 048L3 – 035F – 35K – UV1 – 12 – Powdercoat Color

Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty

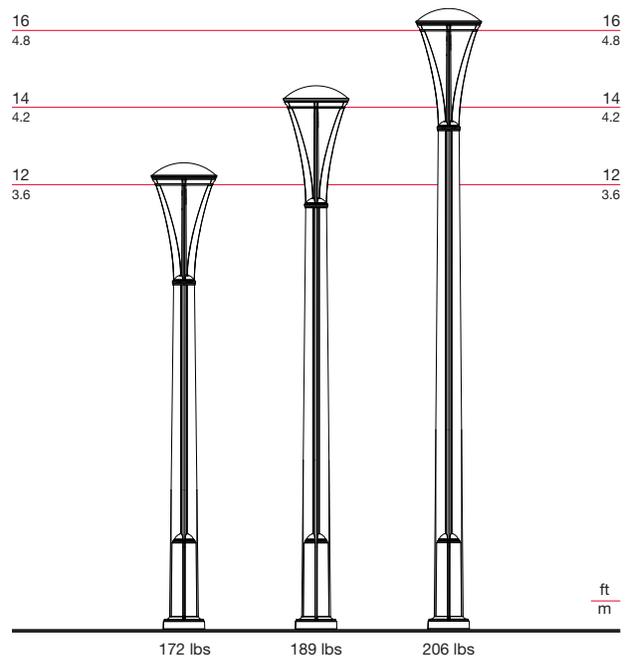
LED lighting products are warranted for six years.

Other

UL Listed, RoHS Compliant, Dark-Sky Approved
U.S. Patent D652,977



Alcott is designed by Robert A.M. Stern Architects



Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level. ©2015 Landscape Forms, Inc. Printed in U.S.A.

HAWTHORNE PATH LIGHT

Product Data Sheet



The three-foot-tall Hawthorne path light echoes the design of its taller companion. Its multiple posts spread as they rise from their base to house a LED luminaire with sealed thermoformed lens. Hawthorne is made of cast aluminum and comes with a durable stainless steel base plate. Mounting template and anchor hardware included for ease of installation.

General Description

- Cast aluminum LED cartridge and structure, stainless steel base plate
- Surface mounted; base plate mounting template included
- Asymmetrical and symmetrical distribution types available
- Zero up-light, International Dark-Sky approved
- UL Listed, suitable for wet locations

Electrical

100V-277V 50/60 Hz, Class 2 LED driver mounted within integrated cast aluminum base cabinet. LED cartridge with weatherproof quick-disconnect provides ease of serviceability. Hawthorne ships prewired and fully assembled.

Hawthorne Type 4

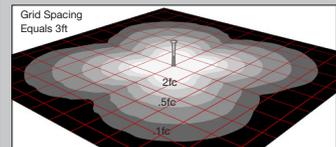
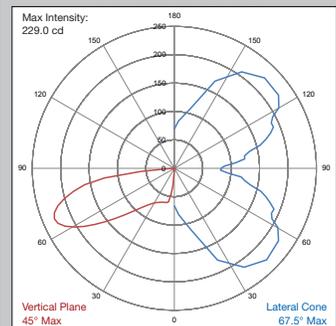
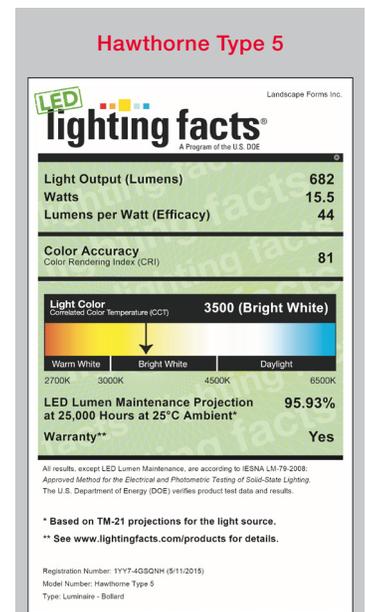
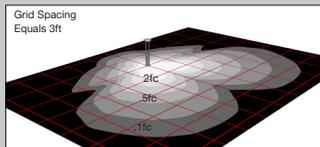
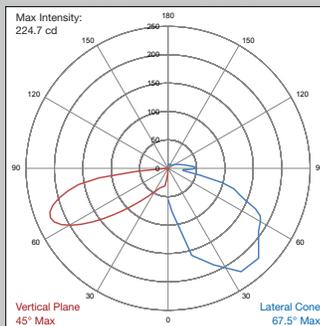
Type 4 Distribution

Lamp: 6 Cree XP-E2 LEDs
 CCT: 3000K, 3500K, 4000K
 Drive Current: 350mA
 Optic: Khatod Collimators
 Lens: Diffused Acrylite®
 Power Supply: 100V-277V
 LED Driver: TRP LED-12W
 BUG Rating: B0 U0 G1
 IP Rating: IP66 for LED Cartridge
 Weight: 50 lbs

Hawthorne Type 5

Type 5 Distribution

Lamp: 12 Cree XP-E2 LEDs
 CCT: 3000K, 3500K, 4000K
 Drive Current: 350mA
 Optic: Khatod Collimators
 Lens: Diffused Acrylite®
 Power Supply: 100V-277V
 LED Driver: (2) TRP LED-12W
 BUG Rating: B1 U0 G1
 IP Rating: IP66 for LED Cartridge
 Weight: 50 lbs



HAWTHORNE PATH LIGHT

Product Data Sheet



Finish

Pangard II®, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order

Specify: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Mounting Option, and Powdercoat Color.

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Mounting
HW Hawthorne	006L4 (6 LED, Type 4)	035F (350 mA)	40K (4000K)	UV1 (100-277VAC)	SM (Surface Mount)
	012L5 (12 LED, Type 5)		35K (3500K)		
			30K (3000K)		

EXAMPLE: HW – 006L4 – 035F – 35K – UV1 – SM – Powdercoat Color

Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty

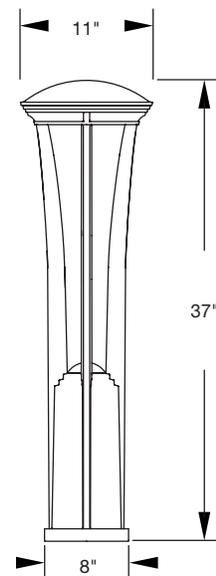
LED lighting products are warranted for six years.

Other

UL Listed, RoHS Compliant, Dark-Sky Approved
U.S. Patent D652,976



Hawthorne is designed by Robert A.M. Stern Architects



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COST ESTIMATE
