



LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and
Electrical Characteristics of Customer Submitted Luminaire

CURTIS-STRAUS

Report No.: PHM-RPT-180309-14
Date: March 09, 2018

LM-79 Distribution Testing: Total Luminous Flux, Luminous Intensity Distribution, Electrical Characteristics and Efficacy.

Report Prepared for:

Vantage Lighting
181 Narragansett Park Drive
East Providence, RI 02916
USA
Telephone: (860) 564-4512

Description : VGC6VEFLED
Model Tested: VGC6VEFLEDU-2035K
WO/CS#: S0461

Report Issue Date: March 9, 2018
Date of Test(s): March 5- March 9, 2018
Total Number of Pages : 9 (including this page)

Report Reviewed by:

Mark Razvi
Photometric Lab Supervisor
Curtis-Straus



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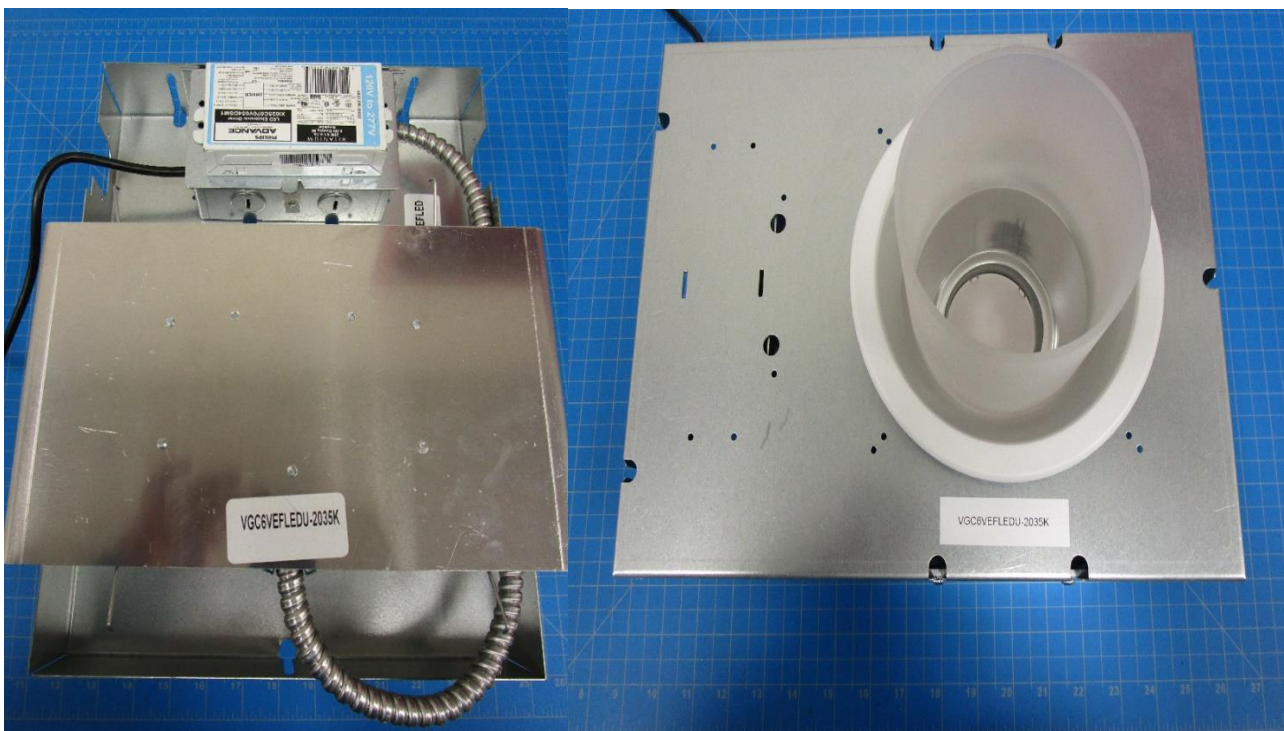
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DETAILED PRODUCT DESCRIPTION

Model #	VGC6VEFLEDU-2035K
CS/WO#	S0461
Description	VGC6VEFLED
Supply Voltage	120VAC

Pictures:





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Curtis-Straus Photometric Testing Information

Photometric Testing is performed in accordance with the procedures outlined in LM-79-2008 . The test sample is evaluated for photometric and electrical characteristics using the equipment listed below.

Curtis-Straus Environmental Testing Info

Curtis-Straus testing laboratory temperature during testing: 24.7 °C .

LIST OF EQUIPMENT USED:

Description	Model No.	Serial No.	Asset No	Cal. Date	Cal. Due
Yokogawa Power Meter	WT-310E	C2SK10001V	2360	04-21-17	04-21-18
Chroma AC Power Supply	61603	616030001283	2355	04-21-17	04-21-18
LabSphere Type-C GoniometerSystem	PM-150-140	022172153	AA-30058-195	02-09-18	03-09-18
Digital Thermometer	4627	160739886	2392	09-07-16	09-07-18

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LM-79-2008 Distribution Test Data

Model #	VGC6VEFLEDU-2035K
CS/WO#	S0461
Description	VGC6VEFLEDU
Supply Voltage	120VAC

Result of Tests

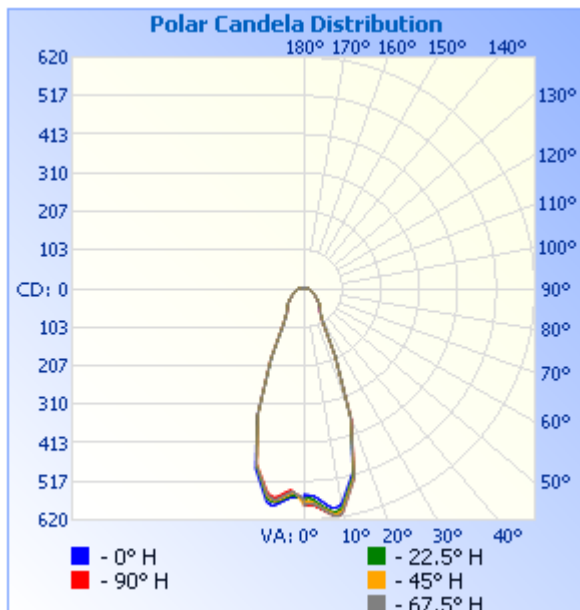
Photometric and Electrical Test Data

Input Voltage: 120 VAC

Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	Ithd (%)
518.88	9.44	120.23	0.08	54.96	0.9638	0.15

Luminous Intensity Summary: Cd



Illumination Cone of Light
Mounting Ht: 10 ft.

	Illuminance at a Distance	
	Center Beam fc	Beam Width
1.7ft	196 fc	1.3 ft 1.4 ft
3.3ft	51.9 fc	2.5 ft 2.6 ft
5.0ft	22.6 fc	3.7 ft 4.0 ft
6.7ft	12.6 fc	5.0 ft 5.3 ft
8.3ft	8.21 fc	6.2 ft 6.6 ft
10.0ft	5.66 fc	7.5 ft 8.0 ft

■ Vert. Spread: 41.1°
■ Horiz. Spread: 43.4°



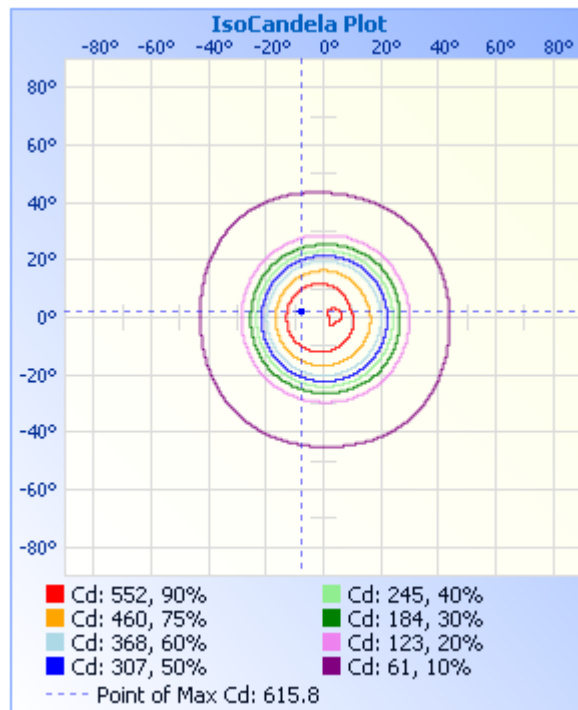
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IsoCandela Plot



Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	287.2	55.4%
0-40	338.2	65.2%
0-60	421.2	81.2%
60-90	67.3	13%
70-100	49.8	9.6%
90-120	22.9	4.4%
0-90	488.5	94.1%
90-180	30.4	5.9%
0-180	518.9	100%

Lumens per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	55.3	10.7%	90-100	11.6	2.2%
10-20	134.7	26.0%	100-110	7.3	1.4%
20-30	97.2	18.7%	110-120	4.0	0.8%
30-40	51.0	9.8%	120-130	2.4	0.5%
40-50	45.7	8.8%	130-140	1.7	0.3%
50-60	37.4	7.2%	140-150	1.4	0.3%
60-70	29.0	5.6%	150-160	1.1	0.2%
70-80	22.1	4.3%	160-170	0.7	0.1%
80-90	16.2	3.1%	170-180	0.2	0%



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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	566	566	566	566	566	566	566	566	566	566	566	566	566	566	566	566	566
0.1	552	565	571	580	582	578	567	564	560	562	574	563	562	567	551	561	553
0.2	553	565	570	580	582	577	567	564	560	561	573	562	562	566	550	562	553
0.3	553	565	570	579	581	577	568	564	560	561	572	561	561	566	550	561	553
0.4	553	565	570	579	581	577	568	564	560	561	571	561	561	565	550	560	553
0.5	553	564	570	579	581	576	568	564	560	561	570	560	560	564	549	560	553
0.6	553	564	570	578	580	576	569	564	560	560	568	560	559	563	549	559	553
0.7	553	564	570	578	580	576	569	564	560	560	567	559	559	563	549	559	554
0.8	553	563	570	578	580	575	569	564	559	560	566	558	558	561	548	558	554
0.9	553	563	570	577	580	575	569	564	559	560	565	558	558	560	548	558	554
1	553	562	570	577	580	575	570	564	559	559	563	557	557	559	548	557	554
1.1	554	562	570	577	580	575	570	564	559	559	562	557	556	558	547	557	554
1.2	554	561	570	577	579	576	570	564	559	559	561	556	556	557	547	556	554
1.3	554	561	570	577	579	576	571	564	559	559	560	555	555	555	547	556	554
1.4	554	561	570	577	579	576	571	564	559	558	559	555	555	554	546	555	555
1.5	554	561	570	577	579	576	571	564	559	558	558	554	554	553	546	555	555
1.6	554	561	570	577	579	576	571	563	559	558	557	554	553	552	546	554	555
1.7	554	562	570	577	579	577	572	563	559	558	555	553	553	551	545	553	555
1.8	554	562	571	577	579	577	572	563	559	557	554	552	552	549	545	553	555
1.9	555	563	571	577	579	577	572	563	559	557	553	552	552	548	544	552	555
2	555	563	572	577	579	577	573	563	559	557	552	551	551	547	544	551	556
2.1	555	563	572	577	580	578	573	562	559	557	551	551	550	546	544	551	556
2.2	555	564	573	577	580	578	573	562	559	557	550	550	550	546	543	550	556
2.3	555	564	573	578	580	579	574	562	558	556	549	549	549	545	543	550	556
2.4	556	565	573	578	581	579	574	563	558	556	549	549	549	544	543	549	556
2.5	556	565	574	578	581	580	574	563	558	556	549	548	548	543	542	549	556
2.6	556	566	574	579	581	580	575	563	558	556	549	548	547	542	542	549	556
2.7	556	567	575	579	582	581	576	564	559	555	549	547	547	541	542	549	557
2.8	557	567	575	579	582	581	576	564	559	555	549	546	546	540	541	550	557
2.9	557	568	576	580	582	582	577	564	559	555	549	546	546	539	542	550	557
3	558	569	577	580	583	582	577	565	560	555	550	545	545	539	542	550	557
3.1	558	570	577	580	584	583	578	565	560	554	550	545	544	539	542	550	558
3.2	559	571	578	581	584	583	578	566	560	555	550	546	544	539	542	551	559
3.3	560	571	579	581	585	584	579	566	560	555	550	546	543	539	542	551	559
3.4	560	572	579	582	585	584	580	566	561	556	550	546	543	539	542	551	560
3.5	561	573	580	582	586	585	580	567	561	556	550	547	542	539	543	551	561



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3.6	562	574	581	583	586	585	581	568	561	556	551	547	541	539	543	552	561
3.7	562	575	581	584	587	586	581	568	562	557	551	548	542	539	543	553	562
3.8	563	575	582	584	587	586	582	569	562	557	552	548	542	539	543	553	563
3.9	564	576	583	585	588	587	583	570	563	557	553	548	543	540	543	554	563
4	565	577	583	586	589	588	583	570	563	558	553	549	543	540	544	554	564
4.1	565	578	584	586	589	588	584	571	564	558	554	549	544	540	544	555	565
4.2	566	579	585	587	590	589	585	572	564	559	554	549	544	540	545	556	566
4.3	567	580	586	587	591	589	585	573	565	559	555	550	545	541	546	556	566
4.4	568	580	586	588	591	590	586	573	565	560	555	551	545	541	546	557	567
4.5	569	581	587	589	592	591	586	574	566	560	556	551	546	542	547	557	568
4.6	570	582	588	590	593	591	587	575	566	561	556	552	546	542	547	558	569
4.7	570	583	588	591	593	592	588	575	567	561	557	553	547	543	548	559	570
4.8	571	584	589	591	594	593	588	576	567	562	558	553	547	543	549	559	571
4.9	572	585	590	592	594	594	589	577	568	562	558	554	548	544	549	560	572
5	573	585	591	593	595	594	590	577	568	563	559	555	548	544	550	561	573
5.1	574	586	591	594	596	595	590	578	569	563	559	555	549	545	550	561	574
5.2	575	587	592	595	597	596	591	579	570	564	560	556	550	545	551	562	574
5.3	575	588	593	595	597	596	592	579	570	564	561	557	550	546	552	563	575
5.4	576	589	594	596	598	597	592	580	571	565	561	557	551	546	552	563	576
5.5	577	589	594	597	599	598	593	581	572	566	562	558	551	547	553	564	577
5.6	578	590	595	598	599	598	594	581	572	566	562	559	552	548	554	565	578
5.7	579	591	596	599	600	599	595	582	573	567	563	559	553	548	554	565	579
5.8	580	592	596	599	601	600	595	583	573	567	564	560	553	549	555	566	580
5.9	581	593	597	600	602	600	596	583	574	568	564	560	554	549	556	567	581
6	582	593	598	601	602	601	597	584	575	568	565	561	555	550	556	568	582
6.1	583	594	598	602	603	602	597	585	575	569	566	562	555	551	557	568	582
6.2	583	595	599	603	604	602	598	586	576	570	566	562	556	551	558	569	583
6.3	584	595	600	603	605	603	598	586	577	570	567	563	557	552	558	570	584
6.4	585	596	601	604	605	604	599	587	577	571	568	564	558	552	559	570	585
6.5	586	597	601	605	606	604	600	588	578	571	568	564	558	553	560	571	586
6.6	586	597	602	606	606	605	600	588	579	572	569	565	559	554	560	572	586
6.7	587	598	603	606	607	605	601	589	579	572	570	565	560	554	561	572	587
6.8	588	599	603	607	608	606	602	590	580	573	570	566	560	555	561	573	588
6.9	589	600	604	608	608	606	602	590	581	573	570	567	561	555	562	574	588
7	589	600	605	609	609	607	603	591	581	574	571	567	562	556	563	574	589
7.1	590	601	606	609	610	607	603	592	582	574	571	568	562	557	563	575	590
7.2	591	601	606	610	610	608	604	592	583	575	571	568	563	557	564	575	591
7.3	592	601	607	611	611	609	604	593	583	575	572	569	563	558	564	576	591
7.4	592	602	607	611	611	609	605	594	584	576	572	570	563	559	564	576	592
7.5	592	602	607	612	612	610	605	594	584	576	572	570	563	559	565	576	592



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7.6	592	603	608	613	612	610	605	595	585	577	572	571	564	559	565	577	592
7.7	592	603	608	613	612	611	606	596	585	577	573	571	564	559	565	577	593
7.8	593	603	608	614	613	611	606	596	586	577	573	570	564	559	565	578	593
7.9	593	604	609	614	613	611	607	597	586	576	573	570	565	559	565	578	593
8	593	604	609	614	614	611	607	597	587	576	573	570	565	559	566	578	593
8.1	593	604	609	614	614	611	608	597	587	576	573	570	565	559	566	579	593
8.2	593	604	610	614	615	611	608	597	587	576	573	570	565	559	566	578	593
8.3	593	604	610	614	615	611	608	597	587	576	572	569	565	559	566	578	593
8.4	593	604	610	615	615	611	607	597	586	576	572	569	564	559	566	578	593
8.5	593	603	610	615	616	611	607	596	586	576	572	569	564	559	566	578	593
8.6	593	603	609	615	615	611	607	596	586	576	571	569	564	559	565	577	593
8.7	592	603	609	615	615	612	606	596	586	576	571	569	563	559	565	577	592
8.8	592	602	609	615	615	612	606	596	585	575	571	568	563	558	565	577	592
8.9	591	602	608	615	614	611	606	596	585	575	571	567	562	558	564	577	591
9	591	602	608	614	614	611	605	596	585	574	570	567	562	557	564	576	591
9.1	590	601	608	613	613	610	605	596	584	574	570	566	562	557	563	576	590
9.2	590	601	607	613	613	610	605	595	584	573	569	566	561	556	563	576	590
9.3	590	601	607	612	613	609	604	594	584	573	568	565	561	556	563	575	589
9.4	589	600	607	612	612	608	603	593	583	572	568	564	560	555	562	575	589
9.5	589	599	606	611	612	608	603	592	582	572	567	564	559	555	562	574	588
9.6	588	598	605	611	611	607	602	592	581	572	566	563	558	554	561	573	588
9.7	587	598	604	610	610	607	601	591	580	571	565	563	558	554	560	573	587
9.8	587	597	604	610	609	606	600	590	580	571	565	562	557	553	560	572	586
9.9	586	596	603	609	608	606	599	589	579	570	564	561	556	552	559	571	586
10	585	596	602	608	608	605	598	588	578	569	563	560	555	551	558	571	585
15	508	515	521	526	525	522	514	505	499	491	487	488	486	480	486	498	508
20	368	368	368	371	373	372	369	366	364	361	359	360	361	361	363	366	368
25	201	199	197	198	200	200	200	202	206	206	209	209	210	210	209	205	201
30	103	102	101	99	98	98	100	102	105	106	108	109	110	109	108	106	103
35	77	79	79	77	76	75	77	78	79	79	80	79	79	78	77	77	77
40	68	70	70	68	67	67	68	69	70	69	69	68	67	66	66	67	68
45	59	61	61	60	58	59	59	60	61	61	61	60	59	58	58	59	59
50	50	50	50	50	49	49	50	50	51	51	51	50	50	49	49	49	50
55	41	42	41	41	41	41	41	42	42	42	42	42	42	41	41	41	41
60	34	34	34	34	34	34	35	35	35	35	36	35	35	35	34	34	34
65	28	29	29	28	28	29	29	29	29	29	30	30	30	30	29	29	28
70	24	24	24	24	24	24	25	25	25	25	25	26	25	25	25	24	24
75	20	20	20	20	20	21	21	21	21	21	21	22	22	21	21	20	20
80	17	17	17	17	17	17	18	18	18	18	18	18	18	18	17	17	17
85	15	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15



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90	12	12	12	12	12	13	13	13	13	13	13	12	12	12	12	12	12
95	11	10	11	11	11	11	11	11	11	11	11	11	11	11	11	10	11
100	9	9	9	9	9	9	9	9	9	9	8	7	7	7	9	9	9
105	8	7	7	8	8	7	7	8	8	7	6	4	5	5	7	8	8
110	7	6	5	6	7	6	5	6	6	6	4	3	3	3	5	6	7
115	5	5	4	5	5	5	4	5	5	4	3	2	2	2	4	5	5
120	4	3	3	4	4	3	3	4	4	3	2	2	2	2	3	4	4
125	3	3	2	3	3	3	2	3	3	3	2	2	2	2	2	3	3
130	2	2	2	2	3	2	2	3	3	2	2	2	2	2	2	3	3
135	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
140	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
145	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
150	2	2	3	2	2	2	2	3	2	2	2	2	2	2	2	2	2
155	2	2	2	2	2	2	3	3	2	2	3	3	2	2	2	2	2
160	3	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2
165	3	3	3	2	3	3	3	3	3	3	3	3	3	2	2	2	2
170	3	3	3	3	3	3	3	3	3	3	3	3	2	3	2	2	2
175	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3
180	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3