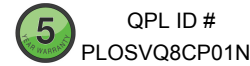


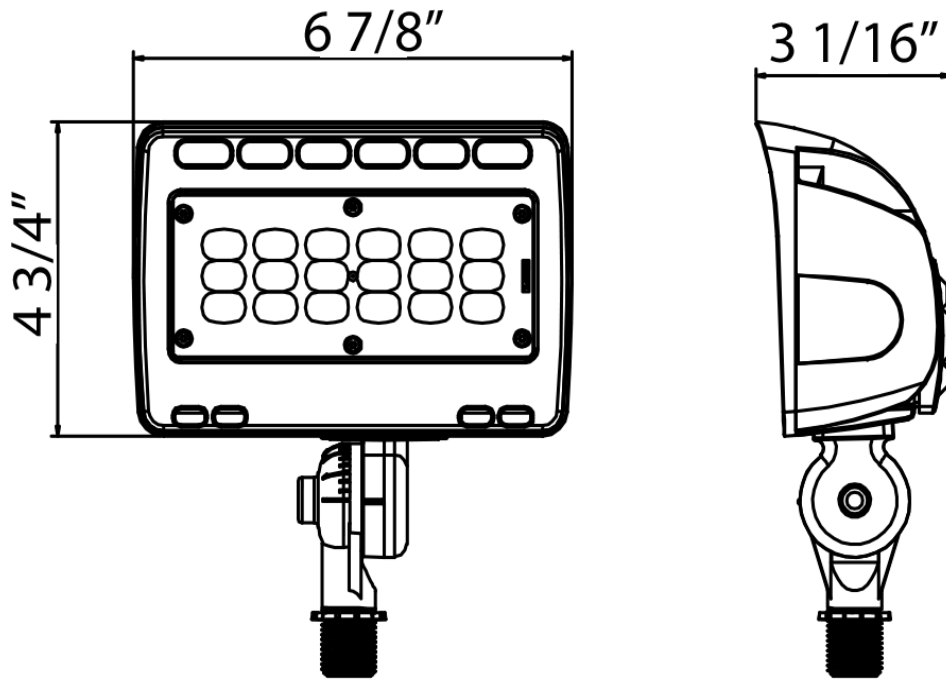


71340A
30W LED Floodlight
1/2" Knuckle Mount



Model:		71340A
OVERALL LAMP PARAMETERS	Input Voltage	100-277VAC 50/60HZ
	Input Current	0.38A Max
	Input Power	30W
	Power Factor	PF ≥ 0.90
	Luminance	3538 LM
	Luminous Efficiency	118 LM/W
	CRI	>80
	Beam Angle	90 x 120°
	Main Structure	Aluminium + Tempered Glass
LED DRIVER	Output Voltage	24-45VDC
	Output Current	0.7A
	Driver Efficiency	89%
LED	LED Manufacturer	Phillips
	LED Type	LumiLED 3030
	LED Quantity	18 PCS
	LED Efficacy	150 LM/W
	Color Temperature	3000K
Photocell	-	Not Included
LIFESPAN & ENVIRONMENT	Lifespan	50,000 Hrs.
	Warranty	5 Years
	IP Rating	IP65 Wet Locations
	Operating Temperature	-40F - +131F
	Storage Temperature, Humidity	-40°C—+80°C , 10—90% RH
SAFETY&EMC	Safety Norms	UL1598, UL8750, EN60598, EN61347-2-13, EN62031, EN62471
	Withstand Voltage	I/P-FG: 2121VDC
	Grounding Resistance	≤0.5 Ω, OK
	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547
OTHERS	Dimension	Pls refer to attached dimensional drawing
	Gross Weight	5.9 Lbs
	Packing Size	inner box: L238*W212*H145 master carton: 490*440*300
	Q'ty / Carton	8PCS
	Volume	2.28Cbm/carton

Dimension: 71340A



LM-79-08 Test Report

For

Morris Products Inc.

53 Carey Rd. Queensbury, NY 12804

Architectural Flood and Spot Luminaires

Model name(s): 71342A, 71339A, 71340A

Representative (Tested) Model: 71342A

Model Different: All construction and rating are the same, except CCT

Test & Report By:

Johnson Sun

Engineer: Johnson Sun

Update: Nov.16, 2016

Review By:

Tommy Liang

Manager: Tommy Liang

Note: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Laboratory: Standard-Tech Co. Ltd Testing Center**NVLAP CODE: 201011-0**

Report Format Number STD/QR4909-A/2

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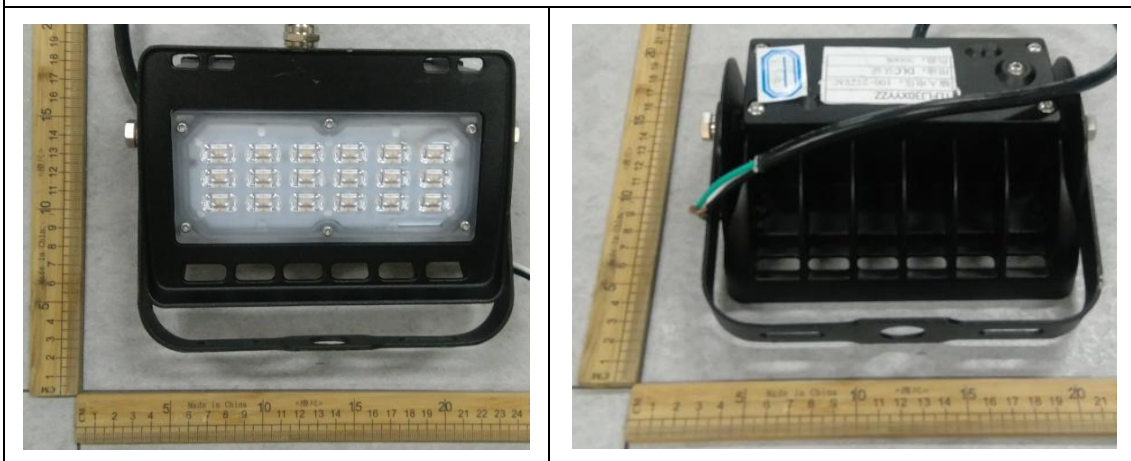
Tel: 8620-3229 0320

Fax: 8620-32290422

<http://www.standard-tech.com>

1.1 Product Information:

Organization Name	Morris Products Inc.	
Brand Name	MORRIS	
Model Number	71342A	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Architectural Flood and Spot Luminaires	
Rated Voltage / Frequency	100 -277Vac, 50/60 Hz	
Nominal Power	30W	
Rated Initial Lamp Lumen	--	
Declared CCT	3000K,4000K,5000K	
LED Manufacturer	Philips Lumileds	
LED Model	L130-2780003000W21	
Sample Number	GZE161105-BR1(3000K),BR2(5000K)	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

Photo

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1.2 Test Specifications:

Date of Receipt	: Nov.11,2016
Date of Test	: Nov.12,2016
Test item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters
Reference Standard	1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products 2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products 3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources 4. CIE 15-2004 Technical Report Colorimetry 5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source 6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	QD25

1.3 Test Methods**1) Photometric and Light Distribution Measurement – Goniophotometer Method:**

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.

2) Chromaticity Measurement – Sphere-Spectroradiometer Method:

Chromaticity parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm.

3) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.

2.1 Electrical, Photometric and Chromaticity Measurements*(Refer to Work Instruction QD25)*

Test date	2016-11-12	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	71342A		

Electrical Measurement :

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
GZE161105-BR1	120.0	60	0.2444	28.94	0.9869	9.05
	277.0	60	0.1149	28.69	0.9013	11.39
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

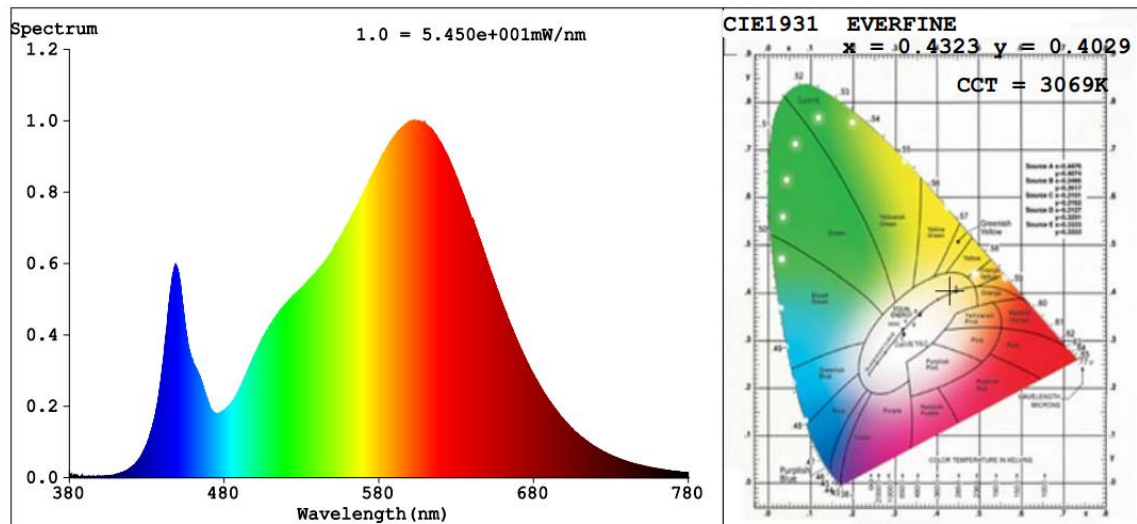
Chromaticity Measurement - Sphere-Spectroradiometer Method :

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	82	R9	11
Frequency (Hz)	60	R2	90	R10	78
CCT (K)	3069	R3	97	R11	81
Duv	0.0002	R4	82	R12	71
Chromaticity (x, y)	x=0.4323 y=0.4029	R5	82	R13	84
Chromaticity (u', v')	u'=0.2481 v'=0.5202	R6	88	R14	99
Color Rendering Index (CRI)	83.3	R7	84	R15	75
R9	11	R8	62	--	--

Photometric Measurement – Goniophotometer Method :

Parameter	Result		DLC V4.0 Pass Criteria	
Test Voltage (V)	120.0	277.0	--	
Frequency (Hz)	60	60		
Total Luminous (lm)	3228.7	3131.5	>=1000 (-10%)	
Luminous Efficacy (lm/W)	111.57	109.15	Standard: >= 90(-3%)	Premium: >= 110(-3%)
Zonal lumens in the 0-90 °zone (%)	99.9	--	>=85(-3)	
Beam Angle (°)	109.5	--	--	
Center Beam Candle Power (cd)	1089	--	--	

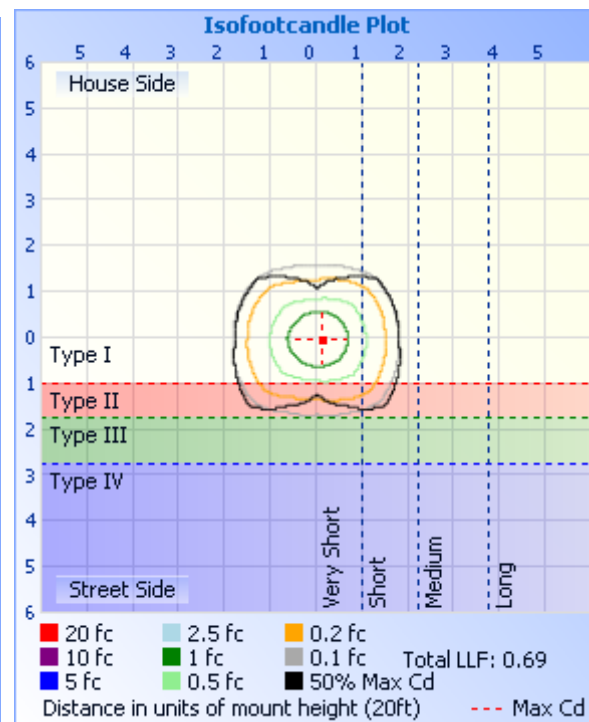
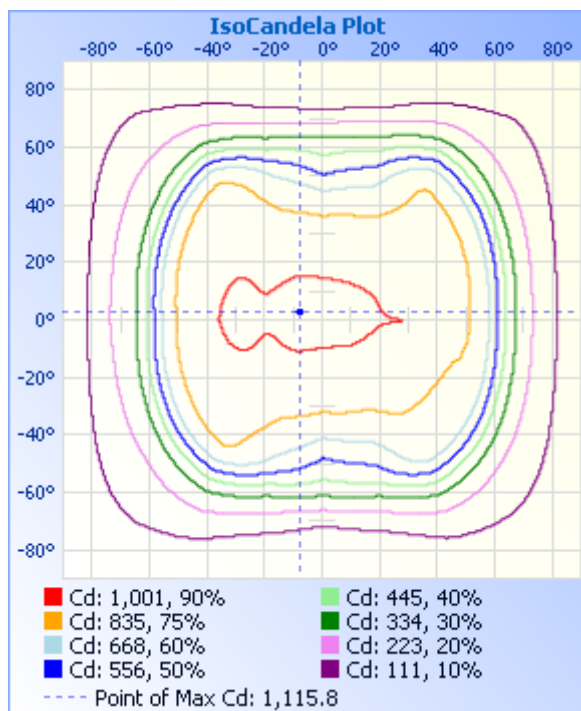
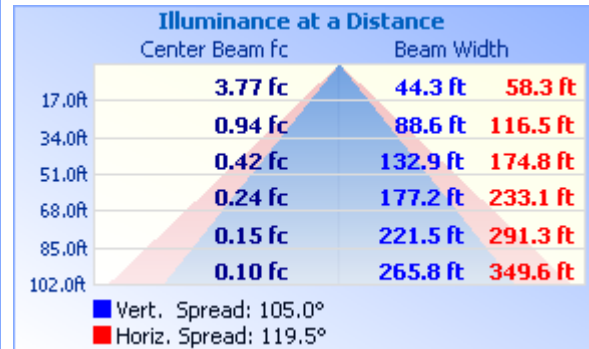
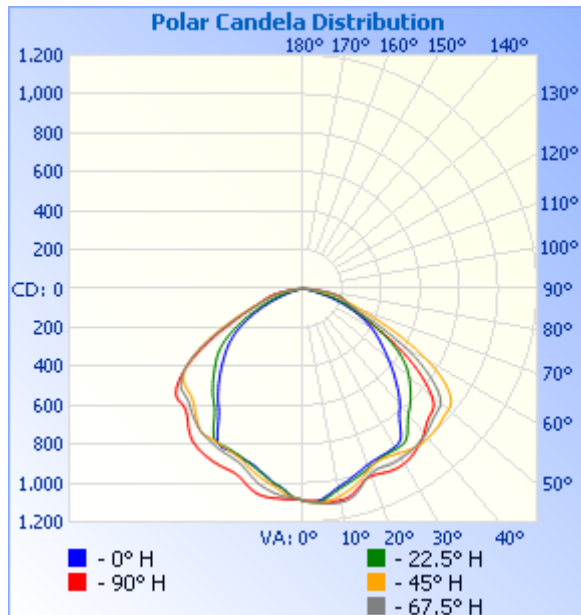
Spectral Power Distribution & Chromaticity Diagram



Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	830.8	25.7%
0-40	1,404.9	43.5%
0-60	2,645.9	82%
60-90	580.2	18%
70-100	203.9	6.3%
90-120	0.2	0%
0-90	3,226.1	99.9%
90-180	2.2	0.1%
0-180	3,228.3	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	102.1	3.2%	90-100	0	0%
10-20	285.6	8.8%	100-110	0.0	0%
20-30	443.1	13.7%	110-120	0.1	0%
30-40	574.1	17.8%	120-130	0.4	0%
40-50	633.9	19.6%	130-140	0.5	0%
50-60	607.1	18.8%	140-150	0.4	0%
60-70	376.3	11.7%	150-160	0.4	0%
70-80	173.3	5.4%	160-170	0.3	0%
80-90	30.7	0.9%	170-180	0.1	0%



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C (DEG) γ (DEG)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338
0	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089
5	1086	1092	1092	1088	1087	1094	1106	1107	1097	1084	1072	1051	1042	1045	1061	1073
10	1087	1088	1062	1042	1037	1047	1083	1115	1104	1074	1029	1007	993	998	1015	1049
15	1061	1059	1018	1001	999	1015	1044	1082	1069	1027	996	965	947	953	977	1004
20	1013	996	968	966	965	982	989	1013	1025	983	950	938	923	923	932	954
25	1005	968	937	938	949	957	965	1006	1038	992	942	926	915	908	913	937
30	995	960	926	929	940	953	978	1007	1037	993	959	929	882	903	904	923
35	973	945	923	907	869	929	998	997	1011	974	983	841	755	792	905	904
40	917	921	914	803	773	841	999	977	967	933	958	772	678	720	855	871
45	861	879	896	732	674	780	989	945	921	892	919	717	598	651	804	829
50	851	865	874	652	575	710	971	921	862	870	892	658	523	585	786	812
55	754	806	848	568	489	621	911	802	703	742	787	551	447	510	745	752
60	580	659	730	468	406	488	736	607	500	550	593	404	349	399	610	605
65	386	457	530	350	311	342	503	392	328	352	397	280	238	279	427	410
70	264	288	340	239	196	230	313	268	248	241	266	192	132	181	278	262
75	198	203	217	129	68.5	125	209	215	218	187	185	116	60.1	101	182	180
80	136	147	105	30.4	12.4	29.7	104	164	154	139	111	24.5	10.9	20.2	109	121
85	48.9	52.1	3.89	0.85	0.53	0.96	3.57	53.6	54.1	57.8	0.00	0.00	0.00	0.00	0.00	50.2
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.16	0.11
115	0.32	0.21	0.00	0.00	0.00	0.00	0.00	0.32	0.42	0.26	0.26	0.00	0.00	0.00	0.32	0.37
120	0.37	0.32	0.37	0.00	0.00	0.00	0.32	0.42	0.48	0.58	0.53	0.11	0.00	0.16	0.48	0.43
125	0.74	0.58	0.37	0.26	0.00	0.16	0.53	0.64	0.69	0.53	0.48	0.32	0.22	0.43	0.53	0.74
130	0.85	0.84	0.42	0.32	0.32	0.37	0.48	0.80	0.64	0.58	0.53	0.53	0.48	0.69	0.58	0.80
135	0.90	0.84	0.42	0.43	0.43	0.53	0.48	0.80	0.58	0.58	0.53	0.59	0.59	0.74	0.58	0.80
140	0.90	0.84	0.42	0.48	0.43	0.53	0.48	0.80	0.58	0.74	0.53	0.69	0.74	0.85	0.53	0.85
145	0.90	0.84	0.42	0.48	0.48	0.53	0.48	0.80	0.58	0.79	0.74	0.85	0.69	0.80	0.80	0.90
150	0.90	0.68	0.63	0.58	0.69	0.53	0.58	0.80	0.58	0.79	0.79	0.90	0.69	0.80	1.22	0.90
155	0.90	0.68	0.95	0.74	0.91	0.69	0.69	0.80	0.58	0.79	0.90	0.96	0.69	0.80	1.17	0.90
160	0.58	0.68	1.06	0.69	0.91	0.69	0.80	0.80	0.74	0.79	0.90	1.01	0.69	0.96	1.06	0.90
165	0.58	0.68	1.06	0.74	0.91	0.69	0.80	0.80	0.95	0.84	0.95	1.12	0.91	1.12	1.12	0.90
170	0.64	0.89	1.27	1.01	1.12	1.22	1.33	0.80	0.90	0.90	1.17	1.33	1.39	1.59	1.38	1.48
175	0.79	1.05	1.32	1.28	1.49	1.33	1.38	0.96	0.85	0.90	1.37	1.33	1.39	1.59	1.38	1.43
180	0.74	1.16	1.32	1.33	1.55	1.33	1.38	1.11	0.85	0.74	1.22	1.33	1.33	1.54	1.33	1.38

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BUG Rating: B1-U1-G1**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	421.38	13.1
FM - Front-Medium(30-60)	940	29.1
FH - Front-High(60-80)	296.88	9.2
FVH - Front-Very High(80-90)	15.871	0.5
Total Forward Light	1675.1	51.9

BL - Back-Low(0-30)	409.44	12.7
BM - Back-Medium(30-60)	875.46	27.1
BH - Back-High(60-80)	252.65	7.8
BVH - Back-Very High(80-90)	14.776	0.5
Total Back Light	1553.6	48.1

UL - Uplight-Low(90-100)	5.3535e-006	0.0
UH - Uplight-High(100-180)	2.2294	0.1
Total Up Light	2.2294	0.1

BUG(Back,Up,Glare) Rating	B1-U1-G1
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1552.3	1.2213	1553.6
Street Side	1674.1	1.0081	1675.1

2.2 Electrical, Photometric and Chromaticity Measurements*(Refer to Work Instruction QD25)*

Test date	2016-11-12	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	71342A		

Electrical Measurement :

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
GZE161105-BR2	120.0	60	0.2471	29.23	0.9858	9.01
	277.0	60	0.1162	28.97	0.9002	11.35
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

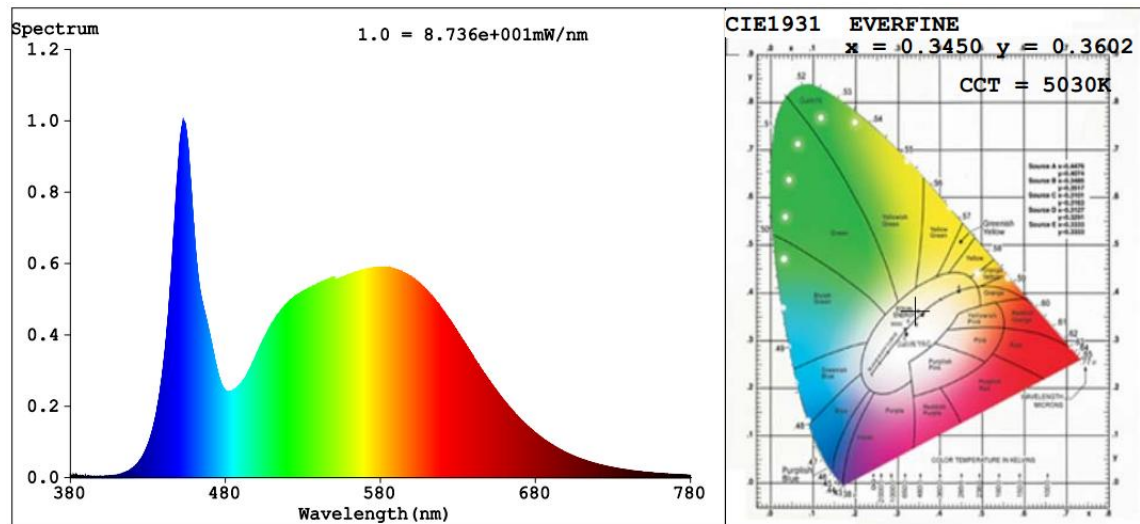
Chromaticity Measurement - Sphere-Spectroradiometer Method :

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	80	R9	5
Frequency (Hz)	60	R2	88	R10	71
CCT (K)	5030	R3	93	R11	80
Duv	0.0043	R4	81	R12	58
Chromaticity (x, y)	x=0.3450 y=0.3602	R5	81	R13	83
Chromaticity (u', v')	u'=0.2081 v'=0.4888	R6	83	R14	96
Color Rendering Index (CRI)	82.5	R7	87	R15	75
R9	5	R8	66	--	--

Photometric Measurement – Sphere-Spectroradiometer Method :

Parameter	Result		DLC V4.0 Pass Criteria	
Test Voltage (V)	120.0	277.0	--	
Frequency (Hz)	60	60		
Total Luminous (lm)	3538	3431	>=1000 (-10%)	
Luminous Efficacy (lm/W)	121.04	118.43	Standard: >= 90(-3%)	Premium: >= 110(-3%)

Spectral Power Distribution & Chromaticity Diagram



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3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-336	2 meter Integrating Sphere	2016-07-01	2017-06-30
ST-R-331	Spectral analysis system HAAS-2000	2016-07-01	2017-06-30
D204	Standard Lamp	2016-07-01	2017-06-30
PF2010	Power Meter for Integrating Sphere	2016-07-01	2017-06-30
EE-09	Goniophotometer system	2016-07-01	2017-06-30
D908S	Standard Lamp	2016-07-01	2017-06-30
PF210	Power Meter for Goniophotometer	2016-07-01	2017-06-30
ST-R-181A	Temperature Tester	2016-07-01	2017-06-30
Uncertainty: Photometric Measurement (Sphere):1.74% Chromaticity Measurement(Sphere):14.3K Photometric Measurement(Goniophotometer):1.62%			

******* END OF REPORT *******

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