



Catalog Number 71375
UPC Number 601986713757
Description LED Bullet Flood Light
30W 2274 Lumens



Features

- Cree CXA LED's, CRI: 83
- Voltage: 120-277VAC
- Isolated Driver Compartment for Optimal Thermal Management
- Corrosion Resistant Die Cast Aluminum Housing
- Superior Architectural White Powder Coat Finish
- Fluted Reflector & Tempered Glass Lens
- Waterproof & Durable Silicone Rubber Gaskets
- 1/2" NPT Knuckle Mount
- Power Factor: 95%
- Luminous Efficiency: 82 Lumens/watt
- Light Pattern: 75° Beam Spread Flood
- Operation Temperature: -40F to 131F
- 50,000+ Hour LED Life Expectancy
- IC Current Controlled LED Circuits
- Color Temperature: 3000K Warm White
- DLC (Design Light Consortium)
- cULus Listed
- 5 Year Warranty

General

Lumen Output: 2274
Color Temperature: 3000K Warm White
CRI: 83
Light Pattern: 75° Beam Spread Flood
Operation Temperature: -40F to 131F
Housing: Corrosion Resistant Die Cast Aluminum Housing
Housing Color: White

Dimension Information

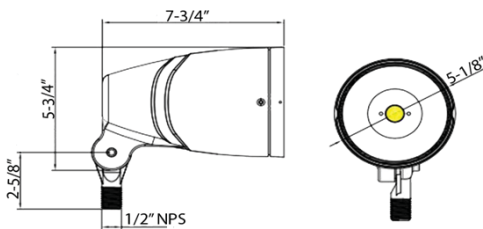
Height: 8-1/8"
Depth: 7-3/4"
Diameter: 5-1/8"
Weight: 4 lbs

Specifications

Voltage: 120/208/240/277
Input Current: .50A @ 120V
Power Consumption: 30 Watts

Packaging

Box Qty 1
Master Box Qty 6





Report No.:GZE150559-B

LM-79-08 Test Report

For

Morris Products Inc.

(Brand Name: Morris)

53 Carey Road
Queensbury, NY 12804

Landscape/Accent Flood and Spot Luminaires

Model name(s): 71375

Test & Report By:

Sean Zhao

Engineer: Sean Zhuo

Date: Jun.02, 2015

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>

U.S. Department of Energy

Lighting Facts™ Uniform LM-79 Reporting Template

Laboratory Information:

Name of Test Laboratory	Standard-Tech Co. Ltd
Date of Test Report	Jun 02, 2015
Test Report No.	GZE150559-B
Laboratory Contact Name	Tommy Liang

Product Information:

Organization Name	Morris Products Inc.	
Brand Name	Morris	
Model Number	71375	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Accent Flood and Spot Luminaires	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	

Integrating Sphere

Goniophotometer

Electrical Measurements:

Output

Output

Input Wattage	--	27.58	W
Input Current	--	0.2351	A
Input Voltage (ac)	--	120.1	V
Power Factor	--	0.9774	
Off-State Power	--	0	W

Photometric Characteristics

Total Initial Lumen Output	--	2274.8	lm
Initial Lumen Efficacy	--	82.47	lm/w
Correlated color temperature / CCT	3080	--	K
Color rendering index / CRI	83.2	--	
R9 Value	13	--	
Duv	0.0014	--	

Luminous Intensity Distribution

Center beam candlepower (if applicable)	-----	2033	cd
Beam angle (if applicable)		75.3	°
Zonal lumens in the 0°-60° zone		99.4	%
Zonal lumens in the 60°-90° zone		0.5	%
Zonal lumens in the 90°-120° zone		0	%
Zonal lumens in the 120°-180° zone		0.1	%

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Test Specifications:	
Date of Receipt	:May.22,2015
Date of Test	:May.29,2015
Test item	: Total Luminous Flux, Luminous Distribution Intensity, Luminous Efficacy, Correlated Color Temperature, Color Rendering Index, Chromaticity Coordinate, Electrical parameters
Reference Standard	IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources CIE 15-2004 Technical Report Colorimetry IESNA LM-16-93 Practical Guide to Colorimetry of Light Source IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	QD25

Test Methods
1. Photometric and Electrical measurements – Light Distribution 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 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. Photometric and Electrical Measurements – Integrating Sphere Method: Photometric 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 Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at least 5 nm intervals over the range of 380 to 780 nm.

1. Product Information:

Brand Name	Morris
Model Number	71375
Luminaire Type	Architectural Flood and Spot Luminaires
Rated Voltage / Frequency	120-277Vac,50/ 60Hz
Nominal Power	30W
Rated Initial Lamp Lumen	N/A
Declared CCT	3000K
LED Manufacturer	CREE
LED Model	CXA 2520
Power Supply:	N/A
Sample Receipt Date	May.22,2015
Sample Number	GZE150559-B1

Photo



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2.1 Electrical, Photometric and Chromaticity Measurements (Refer to Work Instruction QD25)	IES LM-79 2008
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Test date	2015-05-29	Test Ambient:	25.1° C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	71375		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
GZE150559 -B1	120.1	60	0.2351	27.58	0.9774	16.91

Sphere-Spectroradiometer Method:

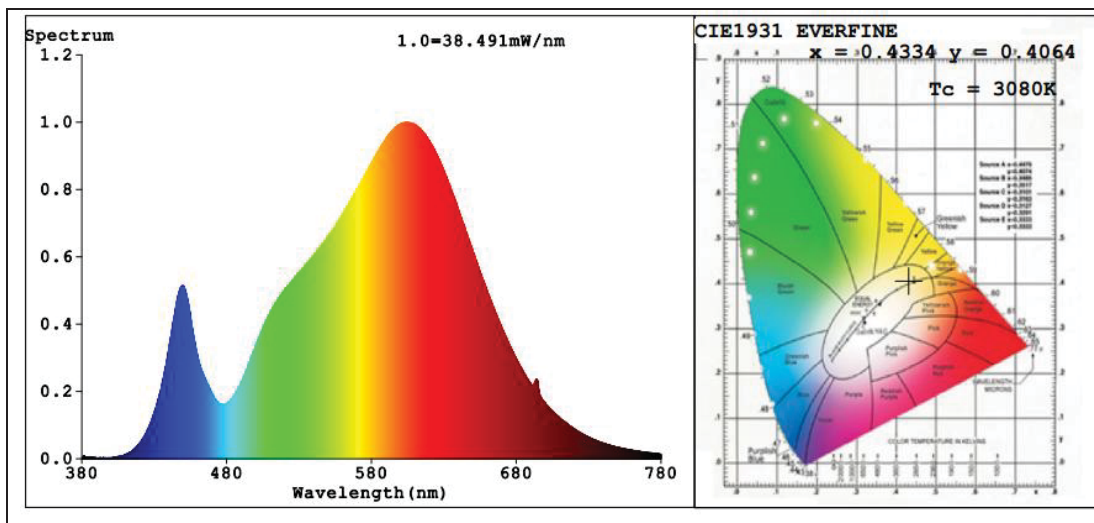
Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	83.2
R9	13
CCT (K)	3080
Chromaticity (x, y)	x=0.4334 y=0.4064
Chromaticity (u', v')	u'=0.2473 v'=0.5218
Duv	0.0014

Special Color Rendering Indices			
R1	81	R9	13
R2	89	R10	75
R3	96	R11	82
R4	83	R12	69
R5	81	R13	83
R6	86	R14	98
R7	86	R15	75
R8	63	--	--

Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120.1
Frequency (Hz)	60
Total Luminous (lm)	2274.8
Luminous Efficacy (lm/W)	82.47
Beam Angle°	75.3
Center Beam Candle Power (cd)	2033
S/MH(C0/180)	1.10
S/MH(C90/270)	1.06

Spectral Power Distribution & Chromaticity Diagram



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Zonal Lumen Tabulation:

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,461.8	64.3%	64.3%
0-40	2,053.3	90.3%	90.3%
0-60	2,260.0	99.3%	99.4%
60-90	12.4	0.5%	0.5%
70-100	2.7	0.1%	0.1%
90-120	0.0	0%	0%
0-90	2,272.4	99.9%	99.9%
90-180	2.0	0.1%	0.1%
0-180	2,274.4	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	159.6	7.0%	90-100	0	0%
10-20	528.0	23.2%	100-110	0	0%
20-30	774.2	34.0%	110-120	0.0	0%
30-40	591.5	26.0%	120-130	0	0%
40-50	183.5	8.1%	130-140	0.0	0%
50-60	23.2	1.0%	140-150	0.4	0%
60-70	9.7	0.4%	150-160	0.7	0%
70-80	2.6	0.1%	160-170	0.6	0%
80-90	0.1	0.0%	170-180	0.2	0%

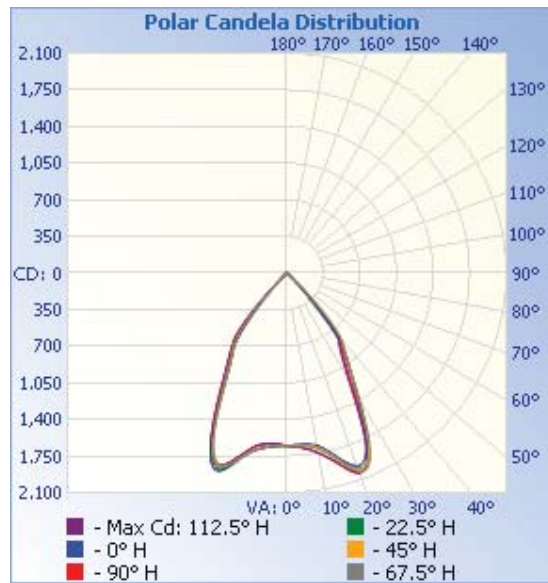
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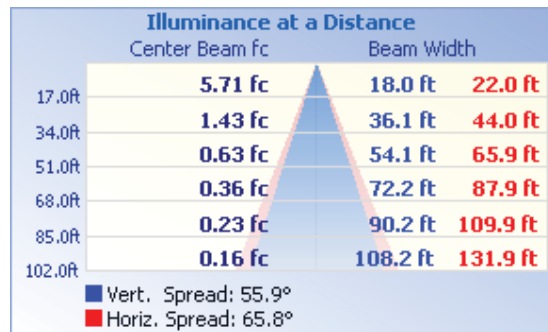
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Photometric Data



Illuminance Plots



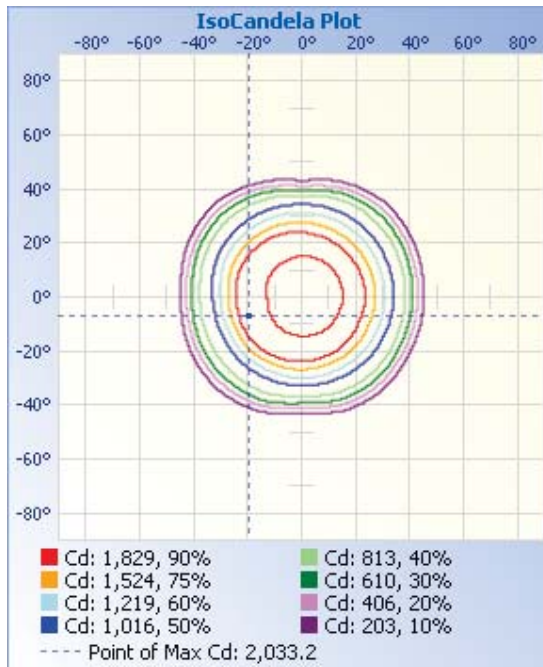
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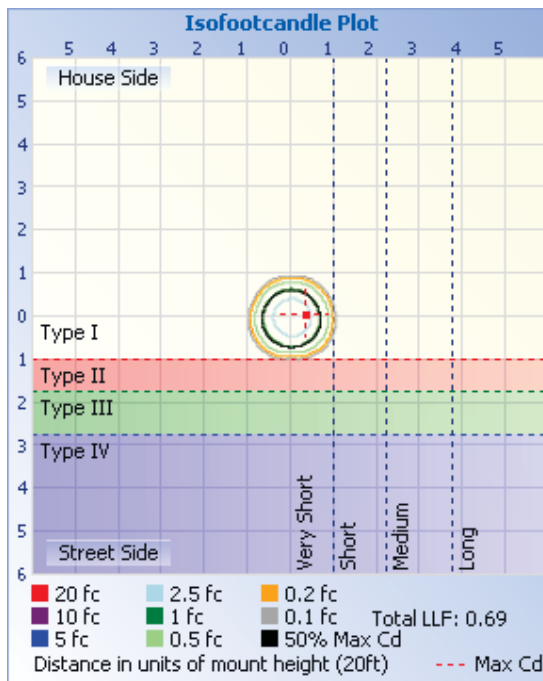
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ISOCANDELA DIAGRAM



ISOLUX DIAGRAM



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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	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651	1651
1	1648	1649	1649	1651	1655	1654	1655	1653	1652	1652	1650	1651	1646	1645	1647	1647	1648
2	1645	1649	1649	1653	1660	1658	1659	1654	1654	1653	1649	1652	1641	1640	1643	1645	1645
3	1644	1647	1652	1656	1662	1662	1662	1657	1655	1653	1651	1651	1640	1638	1640	1642	1644
4	1644	1648	1652	1660	1667	1668	1668	1662	1659	1654	1651	1653	1639	1637	1639	1642	1644
5	1646	1649	1652	1662	1675	1677	1675	1670	1665	1660	1656	1656	1639	1638	1640	1642	1646
6	1646	1651	1655	1664	1685	1686	1685	1678	1673	1668	1664	1664	1642	1640	1641	1644	1646
7	1650	1654	1658	1669	1697	1698	1695	1687	1681	1678	1675	1674	1648	1643	1643	1646	1650
8	1656	1662	1666	1678	1711	1713	1708	1697	1689	1687	1686	1685	1654	1651	1650	1650	1656
9	1662	1666	1676	1688	1726	1730	1722	1711	1702	1699	1699	1699	1664	1660	1661	1658	1662
10	1672	1680	1691	1704	1747	1748	1739	1727	1719	1714	1714	1717	1680	1676	1674	1671	1672
11	1693	1699	1709	1724	1769	1768	1759	1746	1736	1732	1732	1738	1702	1697	1691	1689	1693
12	1715	1724	1732	1748	1795	1791	1780	1769	1759	1754	1753	1764	1727	1724	1717	1712	1715
13	1743	1752	1760	1778	1822	1818	1805	1796	1790	1783	1780	1789	1757	1754	1747	1740	1743
14	1776	1787	1793	1812	1852	1846	1834	1827	1824	1817	1811	1820	1792	1788	1781	1774	1776
15	1809	1823	1830	1846	1882	1880	1870	1862	1864	1858	1846	1854	1827	1823	1814	1808	1809
16	1847	1860	1866	1884	1919	1916	1906	1901	1905	1898	1880	1886	1864	1859	1850	1844	1847
17	1884	1898	1905	1922	1956	1952	1947	1939	1946	1934	1911	1915	1897	1893	1883	1880	1884
18	1916	1937	1942	1960	1990	1986	1982	1973	1980	1964	1936	1935	1927	1921	1911	1910	1916
19	1945	1969	1974	1993	2016	2015	2011	1998	2000	1979	1949	1943	1945	1939	1928	1931	1945
20	1963	1991	1997	2019	2032	2033	2026	2009	2002	1975	1947	1935	1950	1945	1935	1937	1963
21	1966	2000	2007	2030	2030	2031	2022	1998	1983	1951	1925	1909	1939	1933	1923	1932	1966
22	1953	1990	1998	2025	2011	2010	1992	1962	1939	1904	1881	1865	1906	1900	1891	1910	1953
23	1920	1961	1969	2000	1967	1961	1936	1901	1875	1836	1818	1803	1854	1850	1844	1870	1920
24	1869	1915	1919	1954	1898	1886	1855	1815	1789	1752	1736	1728	1787	1783	1781	1814	1869
25	1803	1848	1852	1887	1806	1787	1751	1712	1686	1649	1643	1639	1707	1702	1706	1745	1803
26	1722	1766	1769	1799	1698	1666	1631	1595	1571	1540	1543	1545	1615	1610	1618	1665	1722
27	1630	1668	1673	1698	1581	1538	1504	1475	1459	1431	1441	1449	1520	1515	1529	1576	1630
28	1534	1567	1569	1588	1465	1410	1383	1360	1350	1329	1340	1355	1426	1420	1434	1483	1534
29	1438	1468	1467	1479	1353	1294	1274	1257	1251	1236	1249	1268	1335	1330	1346	1396	1438

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30	1347	1369	1368	1375	1251	1194	1179	1164	1164	1156	1167	1189	1253	1248	1264	1310	1347
31	1262	1280	1278	1278	1163	1107	1098	1089	1090	1084	1097	1120	1178	1174	1189	1232	1262
32	1185	1198	1197	1192	1089	1037	1034	1026	1027	1025	1036	1057	1112	1108	1125	1161	1185
33	1116	1126	1123	1116	1029	980	981	975	977	976	984	1003	1054	1050	1065	1098	1116
34	1056	1065	1062	1054	978	932	938	931	935	933	941	958	1003	1001	1014	1042	1056
35	1004	1009	1007	997	934	891	899	893	896	893	902	917	957	953	967	992	1004
36	954	960	958	948	896	857	863	861	853	854	867	876	914	909	920	945	954
37	903	912	910	903	864	827	832	832	788	821	826	834	869	865	876	903	903
38	813	869	866	856	832	803	796	795	693	764	765	766	826	822	833	856	813
39	695	830	834	822	797	768	735	723	581	676	680	677	780	787	801	817	695
40	568	748	797	786	723	689	648	628	462	577	577	573	696	706	731	735	568
41	443	637	720	709	628	597	549	522	344	470	471	463	593	610	636	630	443
42	320	523	620	616	522	494	447	411	232	361	365	352	484	503	530	514	320
43	207	405	512	516	418	393	347	308	142	262	264	252	378	395	421	396	207
44	126	297	406	408	319	294	256	214	87	176	177	162	274	298	323	289	126
45	86	196	306	309	224	206	174	136	70	110	112	97	188	206	231	193	86
46	70	121	215	218	145	131	110	84	51	74	79	73	119	128	147	118	70
47	51	76	138	143	91	84	76	61	45	59	65	60	79	82	90	74	51
48	47	62	88	92	70	68	63	49	41	45	49	43	66	65	68	59	47
49	43	44	69	70	59	56	47	39	38	39	40	39	46	48	54	42	43
50	39	40	57	57	41	41	40	36	35	36	36	36	40	40	40	37	39
51	36	37	41	43	38	38	36	33	33	32	32	33	37	36	36	34	36
52	33	34	37	39	35	35	33	30	30	30	29	30	33	33	33	31	33
53	31	31	34	36	32	32	31	28	28	27	27	27	30	31	31	29	31
54	28	28	31	33	29	30	28	25	25	25	24	25	28	28	28	26	28
55	26	26	28	30	27	27	26	23	24	23	22	23	25	25	25	24	26
56	24	24	26	27	25	24	23	21	22	21	20	20	23	23	23	22	24
57	22	22	24	24	22	22	21	20	20	19	18	19	21	21	21	20	22
58	20	20	21	22	21	20	19	18	18	17	17	17	19	19	19	19	20
59	18	18	20	20	19	19	18	16	17	16	15	16	17	17	17	17	18
60	17	17	18	18	17	17	16	15	16	14	14	14	15	16	16	16	17
61	16	15	16	17	15	15	14	14	14	13	12	13	14	14	14	14	16

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62	14	14	15	15	14	14	13	13	13	12	11	11	13	13	13	13	14
63	13	13	13	14	13	13	12	11	12	11	10	10	11	11	11	12	13
64	12	12	12	12	11	11	10	10	11	10	9	9	10	10	10	11	12
65	11	10	11	11	10	10	9	9	10	9	8	8	9	9	9	9	11
66	10	9	10	10	9	9	8	8	9	8	7	7	8	8	8	9	10
67	9	8	9	9	8	8	7	7	8	7	6	6	7	7	7	8	9
68	8	7	8	8	7	7	6	7	7	6	5	6	6	6	6	7	8
69	7	7	7	7	6	6	6	6	6	5	5	5	5	5	5	6	7
70	6	6	6	6	5	5	5	5	6	5	4	4	5	5	5	5	6
71	6	5	5	5	4	4	4	4	5	4	3	3	4	4	4	5	6
72	5	4	4	5	4	4	3	4	5	3	3	3	3	4	4	4	5
73	4	4	4	4	3	3	3	3	4	3	2	2	3	3	3	3	4
74	4	3	3	3	2	3	2	3	4	3	2	2	2	2	2	3	4
75	3	3	3	3	2	2	2	3	3	2	2	1	2	2	2	2	3
76	3	2	2	2	1	2	2	2	3	2	1	1	1	1	2	2	3
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79	2	1	1	1	0	0	0	1	2	1	0	0	0	0	0	1	2
80	1	1	1	1	0	0	0	1	2	1	0	0	0	0	0	1	1
81	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1
82	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Laboratory: Standard-Tech Co. Ltd Testing Center

NVLAP CODE: 201011-0

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94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
140	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0
141	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
142	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
143	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
144	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
145	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
146	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
147	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
148	0	0	0	0	2	2	2	2	2	1	2	1	0	0	0	0	0
149	0	0	0	0	2	2	2	2	2	2	2	2	0	0	1	0	0
150	0	0	1	0	2	2	2	2	2	2	2	2	1	0	1	0	0
151	1	0	1	0	2	2	2	2	2	2	2	2	1	1	1	1	1
152	1	0	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
153	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
154	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
155	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
156	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
157	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1

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158	1	1	1	1	2	2	2	2	2	2	2	3	1	1	1	1	1
159	1	1	1	1	2	3	2	3	2	0	2	3	1	1	1	1	1
160	2	1	1	1	2	2	2	3	2	3	3	3	1	1	1	1	2
161	2	1	1	1	2	2	2	3	2	3	3	3	2	2	1	1	2
162	2	1	1	1	3	2	2	3	2	3	3	3	2	2	2	2	2
163	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
164	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
165	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
166	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
167	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
168	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
169	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
170	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
171	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
172	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
173	2	2	2	2	3	3	2	3	3	3	3	3	2	2	2	2	2
174	3	2	2	2	3	3	2	3	3	3	3	3	2	2	2	3	3
175	3	3	3	2	3	3	2	3	3	3	3	3	2	2	3	3	3
176	3	3	3	2	3	3	2	3	3	3	3	3	2	3	3	3	3
177	3	3	3	3	3	3	2	3	3	3	3	3	2	2	3	3	3
178	3	3	3	3	3	3	2	3	3	3	3	3	2	2	3	3	3
179	3	3	3	3	2	2	2	3	3	3	3	3	2	2	3	3	3
180	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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BUG Rating:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	735.51	32.3
FM - Front-Medium(30-60)	426.65	18.8
FH - Front-High(60-80)	6.4566	0.3
FVH - Front-Very High(80-90)	0.045316	0.0
Total Forward Light	1169.3	51.4

BL - Back-Low(0-30)	726.37	31.9
BM - Back-Medium(30-60)	371.81	16.3
BH - Back-High(60-80)	5.874	0.3
BVH - Back-Very High(80-90)	0.046568	0.0
Total Back Light	1105.5	48.6

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	2.0448	0.1
Total Up Light	2.0448	0.1

BUG (Back, Up, Glare) Rating	B2-U1-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1168.7	0.63295	1169.3
Street Side	1104.1	1.4118	1105.5

3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-336	2 meter Integrating Sphere	2014-07-01	2015-06-30
ST-R-331	Spectral analysis system HAAS-2000	2014-07-01	2015-06-30
D204	Standard Lamp	2014-07-01	2015-06-30
PF2010	Power Meter for Integrating Sphere	2014-07-01	2015-06-30
EE-09	Goniophotometer system	2014-07-01	2015-06-30
D908S	Standard Lamp	2014-07-01	2015-06-30
PF210	Power Meter for Goniophotometer	2014-07-01	2015-06-30
ST-R-181A	Temperature Tester	2014-07-01	2015-06-30
Uncertainty Photometric Measurement (Sphere):1.74% Chromaticity Measurement(Sphere):14.3K Photometric Measurement(Goniophotometer):1.62%			

***** END OF DATASHEET PACKAGE *****

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