



**71400
GAS STATION
Canopy Luminaire**

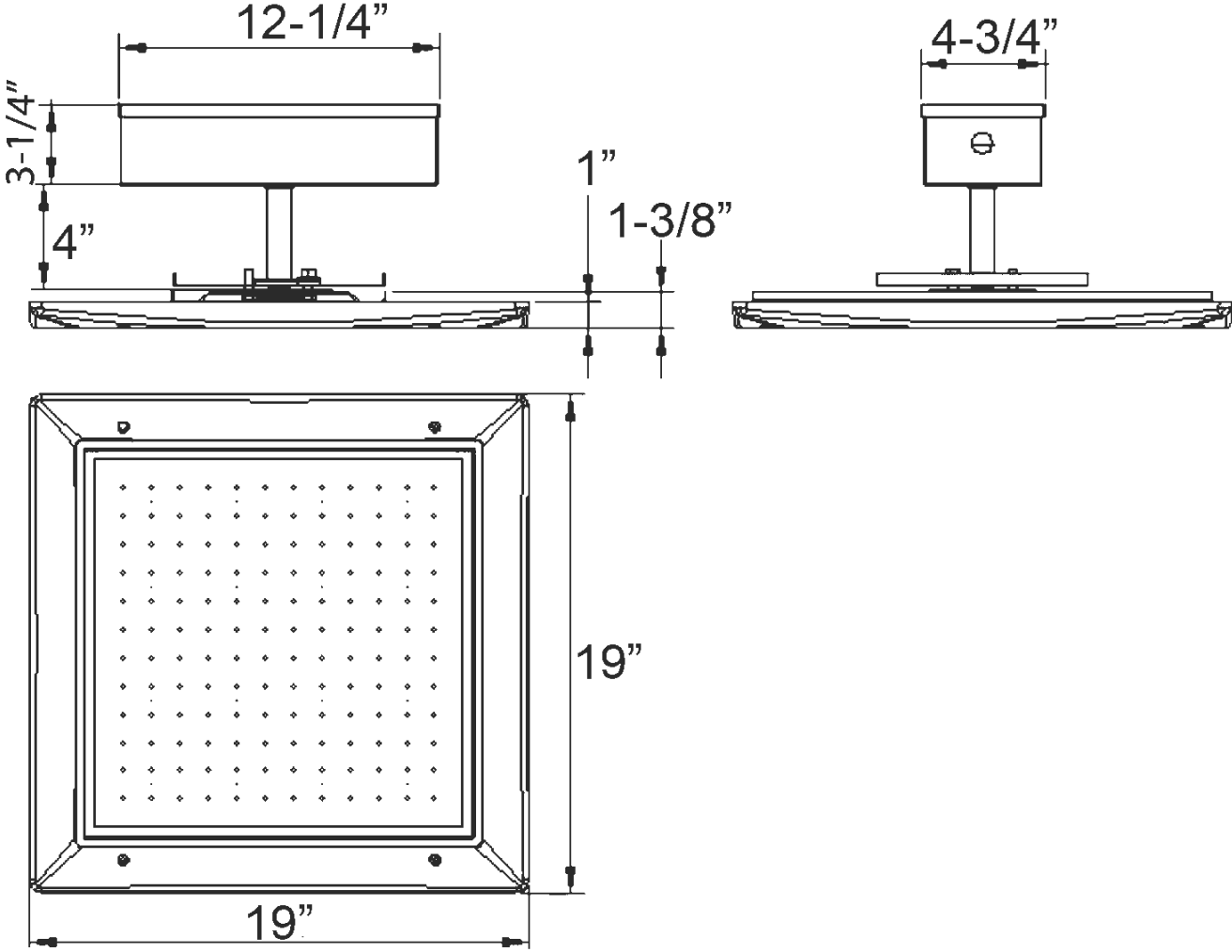


Wet Locations Use



Model :		71400
OVERALL LAMP PARAMETERS	Input Voltage	100-277VAC
	Input Current	1.4A @120V / 0.55A @277V
	Input Power	115 W
	Power Factor	PF≥0.95
	Luminance	13769 LM
	Luminous Efficiency	119 LM/W
	CRI	84
	Beam Angle	120°
	Main Structure	Aluminium + PC
LED DRIVER	Output Voltage	42V
	Output Current	2.9A
	Driver Efficiency	93%
LED	LED Brand	philips3030
	LED Quantity	144 pcs
	LED Manufacturer	Philips
	LED Efficacy	133 LM/W
	Color Temperature	WW/NW/PW/CW (5193K)
LIFESPAN & ENVIRONMENT	Lifespan	50000 Hrs.
	Warranty	5 Years
	IP Rating	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	25A 100mΩ
	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547
OTHERS	Dimension	Pls refer to attached dimension drawing
	Net Weight	24-1/4 Lbs
	Packing Size	665*530*120
	Q'ty / Carton	1 PCS
	Volume	0.043CBM

Dimensions : 71400



LM-79-08 Test Report

For

Morris Products Inc.

(Brand Name: Morris)

53 Carey Road
Queensbury, NY 12804

Model name(s): 71400

Representative (Tested) Model: 71400

Test & Report By:

Sean Zhuo

Engineer: Sean Zhuo

Date: Oct.13,2014

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.

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	Oct.13,2014
Test Report No.	GZE140709-M
Laboratory Contact Name	Tommy Liang

Product Information:

Organization Name	Morris Products Inc.	
Brand Name	Morris	
Model Number	71400	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Gas Station Canopy Luminaire	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

Integrating Sphere
Goniophotometer
Electrical Measurements:

	Output	Output	
Input Wattage	--	112.9	W
Input Current	--	0.9465	A
Input Voltage (ac)	--	120.0	V
Power Factor	--	0.9938	
Off-State Power	--	0	W

Photometric Characteristics

Total Initial Lumen Output	--	10665	lm
Initial Lumen Efficacy	--	94.45	lm/w
Correlated color temperature / CCT	3048	--	K
Color rendering index / CRI	83.7	--	
R9 Value	21	--	
Duv	0.0008	--	

Luminous Intensity Distribution

Center beam candlepower (if applicable)	-----	3834	cd
Beam angle (if applicable)		154.8	°
Zonal lumens in the 0°-60° zone		81.5	%
Zonal lumens in the 60°-90° zone		18.3	%
Zonal lumens in the 90°-120° zone		0.1	%
Zonal lumens in the 120°-180° zone		0.1	%

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>

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Test Report No.	GZE140709-M
Laboratory Contact Name	Tommy Liang

Product Information:

Organization Name	Morris Products Inc.
Brand Name	Morris
Model Number	71400
SKU (if available)	N/A
Type of Luminaire (for integral lamps, list base type and lamp type)	Gas Station Canopy Luminaire
Luminaire Aperture (for downlights)	-- in.
Luminaire Length	-- mm
Luminaires Width	-- mm
Number of Units (modular products)	N/A s

Electrical Measurements:	Integrating Sphere	Goniophotometer	
	Output	Output	
Input Wattage	115.7	--	W
Input Current	0.9682	--	A
Input Voltage (ac)	120.1	--	V
Power Factor	0.9950	--	
Off-State Power	0	--	W

Photometric Characteristics

Total Initial Lumen Output	13769	--	lm
Initial Lumen Efficacy	119.01	--	lm/w
Correlated color temperature / CCT	5193	--	K
Color rendering index / CRI	84.0	--	
R9 Value	11	--	
Duv	0.0029	--	
Luminous Intensity Distribution			
Center beam candlepower (if applicable)	-----	--	
Beam angle (if applicable)		--	
Zonal lumens in the 0°-60° zone		--	
Zonal lumens in the 60°-90° zone		--	
Zonal lumens in the 90°-120° zone		--	
Zonal lumens in the 120°-180° zone		--	

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Test Specifications:	
Date of Receipt	: Oct.10,2014
Date of Test	: Oct.11,2014
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:

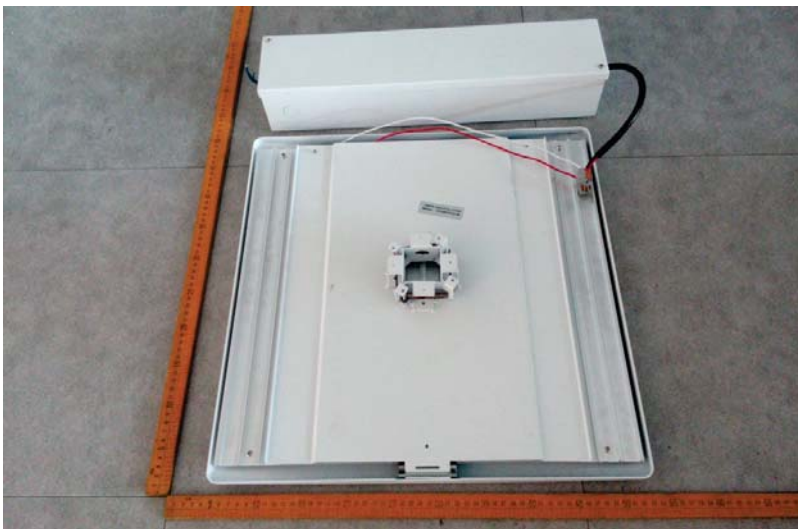
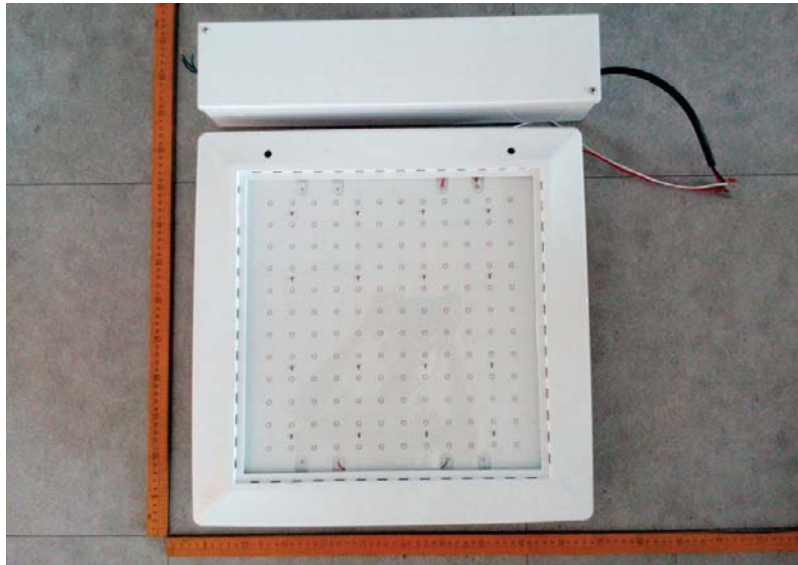
Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 Volts AC, 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	71400
Luminaire Type	Gas Station Canopy Luminaire
Rated Voltage / Frequency	100 ~ 277 Vac, 50/60 Hz
Nominal Power	120W
Rated Initial Lamp Lumen	--
Declared CCT	3000K,3500K,4000K,4500K,5000K
LED Manufacturer	Philips
LED Model	LUXEON 3535 2D
Sample Receipt Date	Oct.10,2014
Sample Number	140709-33(3000K),34 (5000K)

Photo

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

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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	2014-10-11	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	71400		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
140709-33	120.0	60	0.9465	112.9	0.9938	6.99
	277.2	60	0.4381	113.4	0.9338	12.68

Sphere-Spectroradiometer Method:

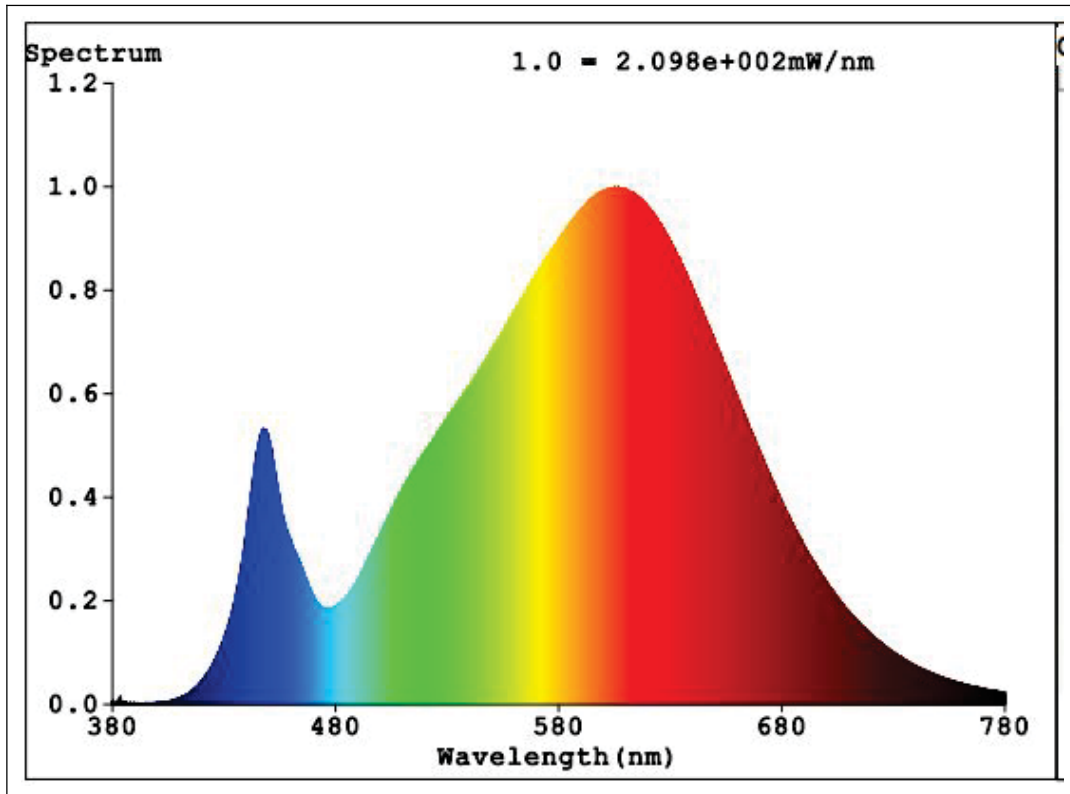
Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	82	R9	21
Frequency (Hz)	60	R2	89	R10	75
Color Rendering Index (CRI)	83.7	R3	96	R11	80
R9	21	R4	82	R12	69
CCT (K)	3048	R5	81	R13	83
Chromaticity (x, y)	x=0.4347 y=0.4053	R6	86	R14	97
Chromaticity (u', v')	u'=0.2486 v'=0.5215	R7	87	R15	77
Duv	0.0008	R8	66	--	--

Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	10665
Luminous Efficacy (lm/W)	94.45
Beam Angle°	154.8
Center Beam Candle Power (cd)	3834
S/MH(C0/180)	1.28
S/MH(C90/270)	1.26

Spectral Power Distribution

Spectral Power Distribution:



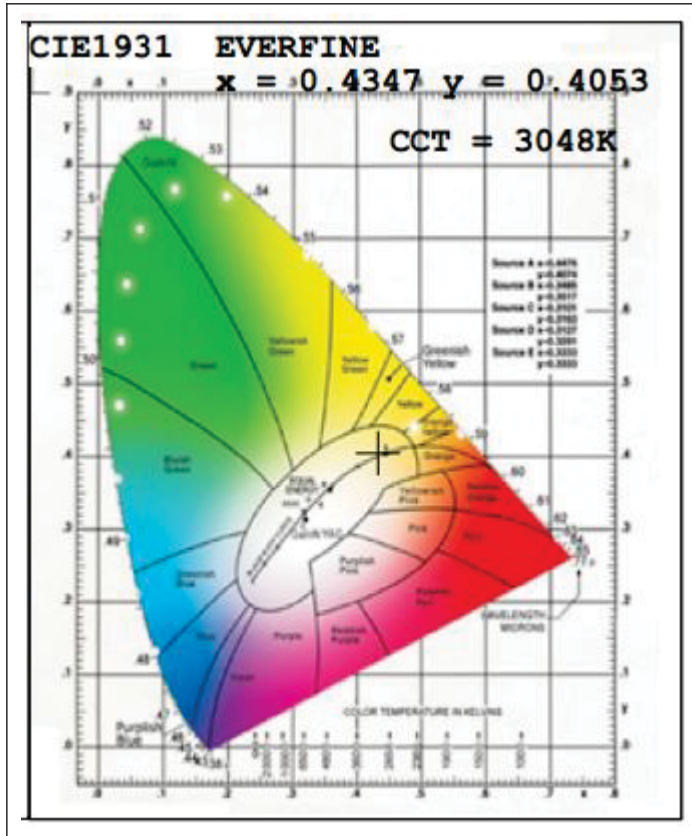
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Chromaticity Diagram



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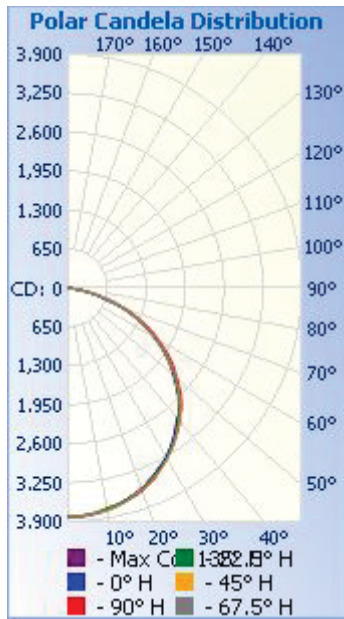
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Zonal Lumen Tabulation

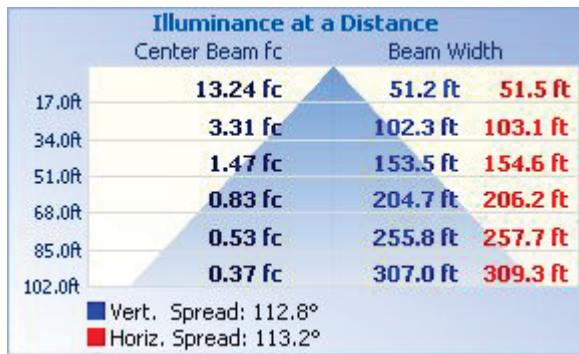
Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	2,984.0	28%	28%
0-40	4,904.9	46%	46%
0-60	8,686.0	81.4%	81.5%
60-90	1,955.3	18.3%	18.3%
70-100	666.3	6.2%	6.2%
90-120	6.0	0.1%	0.1%
0-90	10,641.3	99.8%	99.8%
90-180	22.7	0.2%	0.2%
0-180	10,664.0	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	361.9	3.4%	90-100	0.9	0%
10-20	1,039.4	9.7%	100-110	2.0	0%
20-30	1,582.7	14.8%	110-120	3.1	0%
30-40	1,920.9	18.0%	120-130	3.8	0%
40-50	1,998.8	18.7%	130-140	3.9	0%
50-60	1,782.4	16.7%	140-150	3.5	0%
60-70	1,289.9	12.1%	150-160	2.9	0%
70-80	594.9	5.6%	160-170	1.9	0%
80-90	70.4	0.7%	170-180	0.7	0%

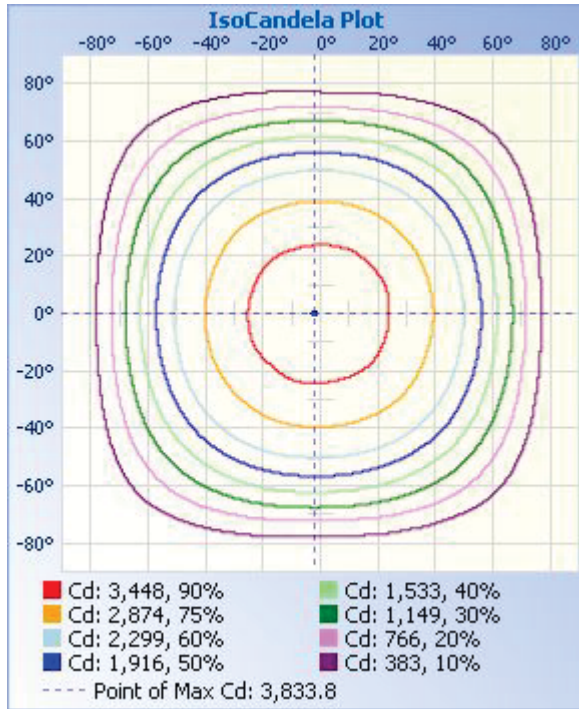
Photometric Data



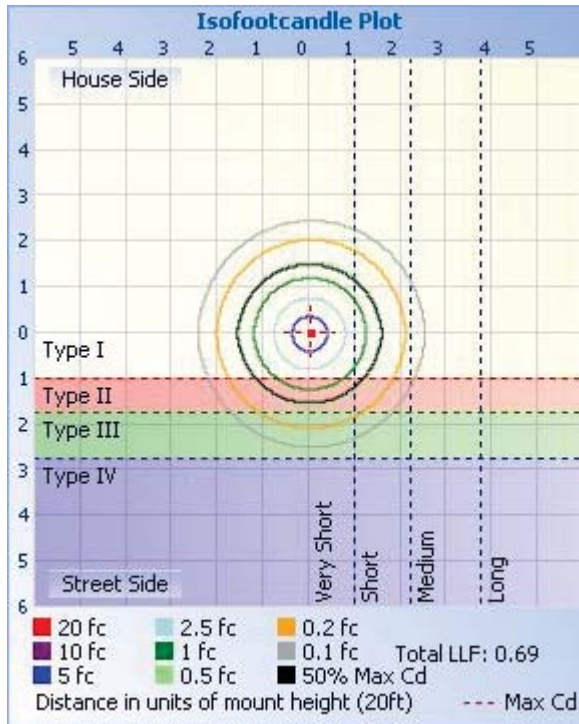
Illuminance Plots



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	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827	3827
1	3828	3826	3829	3829	3828	3825	3829	3823	3825	3825	3820	3825	3823	3826	3823	3828	3828
2	3827	3825	3829	3829	3830	3822	3832	3819	3822	3819	3812	3823	3824	3824	3821	3831	3827
3	3822	3820	3828	3823	3832	3819	3834	3816	3817	3812	3803	3818	3825	3819	3820	3830	3822
4	3816	3814	3824	3817	3829	3815	3830	3812	3810	3805	3797	3813	3825	3811	3813	3826	3816
5	3810	3807	3818	3810	3819	3812	3823	3807	3799	3798	3792	3804	3820	3803	3803	3819	3810
6	3805	3797	3810	3802	3806	3809	3814	3799	3787	3787	3786	3793	3810	3796	3791	3813	3805
7	3801	3786	3803	3793	3796	3804	3808	3790	3775	3776	3778	3779	3796	3788	3779	3802	3801
8	3795	3771	3797	3785	3786	3799	3798	3781	3761	3761	3770	3767	3784	3778	3770	3786	3795
9	3784	3758	3793	3776	3779	3793	3787	3772	3748	3747	3765	3753	3777	3767	3762	3772	3784
10	3769	3744	3785	3766	3769	3782	3775	3759	3734	3737	3755	3742	3769	3757	3753	3762	3769
11	3754	3730	3771	3754	3757	3769	3761	3747	3718	3725	3746	3729	3754	3744	3740	3749	3754
12	3739	3719	3754	3745	3747	3755	3745	3735	3698	3711	3734	3713	3737	3731	3725	3738	3739
13	3723	3710	3736	3732	3736	3743	3730	3723	3675	3694	3717	3696	3720	3717	3709	3724	3723
14	3703	3697	3717	3716	3719	3728	3710	3708	3654	3678	3697	3676	3709	3695	3694	3706	3703
15	3680	3683	3700	3698	3703	3710	3689	3689	3634	3660	3675	3657	3692	3670	3677	3685	3680
16	3658	3666	3677	3678	3688	3692	3668	3665	3616	3638	3654	3640	3668	3649	3659	3661	3658
17	3636	3649	3655	3660	3671	3668	3643	3640	3597	3617	3633	3625	3644	3627	3640	3644	3636
18	3620	3631	3634	3641	3654	3649	3620	3618	3583	3595	3608	3602	3620	3605	3617	3629	3620
19	3604	3609	3615	3620	3639	3630	3594	3595	3565	3573	3581	3580	3592	3585	3587	3606	3604
20	3582	3582	3594	3595	3613	3605	3573	3572	3547	3548	3558	3555	3564	3565	3557	3582	3582
21	3552	3555	3566	3568	3590	3577	3550	3551	3524	3520	3537	3526	3524	3537	3525	3555	3552
22	3518	3527	3545	3542	3560	3545	3527	3528	3498	3495	3512	3499	3492	3510	3498	3526	3518
23	3485	3500	3525	3517	3536	3520	3500	3499	3470	3466	3482	3467	3467	3485	3473	3493	3485
24	3458	3469	3496	3490	3514	3499	3470	3471	3442	3435	3448	3435	3441	3454	3446	3465	3458
25	3432	3436	3465	3463	3478	3471	3437	3444	3416	3401	3419	3406	3402	3426	3422	3440	3432
26	3400	3406	3442	3432	3439	3444	3401	3412	3389	3367	3388	3377	3357	3390	3392	3405	3400
27	3368	3380	3413	3402	3400	3417	3372	3377	3357	3334	3350	3342	3313	3351	3358	3375	3368
28	3336	3347	3380	3370	3358	3380	3346	3345	3323	3298	3309	3311	3276	3312	3325	3343	3336
29	3306	3322	3346	3336	3324	3343	3315	3311	3287	3263	3275	3275	3242	3282	3293	3302	3306

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30	3275	3286	3310	3302	3288	3308	3288	3274	3251	3232	3242	3242	3212	3247	3254	3270	3275
31	3235	3242	3272	3262	3255	3270	3257	3238	3211	3200	3204	3201	3181	3209	3208	3232	3235
32	3196	3203	3233	3228	3219	3233	3225	3204	3173	3166	3169	3165	3152	3173	3168	3189	3196
33	3154	3166	3190	3190	3182	3194	3186	3166	3132	3126	3130	3123	3123	3126	3129	3151	3154
34	3111	3126	3156	3147	3153	3156	3143	3122	3090	3085	3091	3082	3089	3077	3089	3111	3111
35	3069	3088	3110	3107	3113	3112	3099	3079	3049	3044	3053	3041	3057	3036	3042	3065	3069
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37	2974	3001	3023	3021	3033	3025	3006	2993	2962	2959	2964	2942	2968	2947	2956	2976	2974
38	2926	2956	2981	2975	2993	2976	2959	2952	2916	2911	2917	2902	2926	2902	2911	2935	2926
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41	2810	2814	2851	2842	2853	2842	2814	2809	2793	2763	2778	2756	2761	2762	2774	2793	2810
42	2761	2768	2797	2789	2816	2795	2763	2768	2738	2711	2719	2704	2708	2704	2722	2745	2761
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46	2558	2558	2584	2580	2627	2588	2567	2557	2520	2502	2495	2494	2498	2497	2500	2530	2558
47	2494	2499	2520	2529	2569	2533	2512	2501	2469	2451	2444	2438	2440	2437	2443	2478	2494
48	2430	2446	2461	2473	2508	2476	2454	2444	2409	2394	2389	2379	2382	2377	2382	2421	2430
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50	2312	2332	2346	2355	2391	2361	2334	2333	2289	2280	2264	2259	2262	2254	2264	2300	2312
51	2256	2276	2288	2299	2326	2296	2278	2271	2232	2225	2196	2200	2206	2192	2205	2241	2256
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61	1612	1623	1624	1635	1689	1634	1617	1622	1588	1566	1528	1519	1546	1524	1541	1590	1612

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

Report Format Number STD/QR4909-A/2

Address: 8th floor, Block B, No. 11 Caipin Road, Guangzhou Science City, Tianhe, Guangzhou 510663, China

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62	1543	1557	1556	1565	1624	1563	1547	1552	1524	1494	1455	1447	1478	1449	1473	1523	1543
63	1473	1491	1488	1495	1555	1489	1476	1480	1456	1422	1384	1374	1410	1376	1403	1452	1473
64	1403	1421	1416	1422	1482	1419	1407	1408	1384	1349	1311	1300	1339	1299	1329	1382	1403
65	1332	1349	1344	1350	1410	1347	1335	1335	1308	1279	1239	1226	1265	1226	1258	1310	1332
66	1259	1276	1271	1273	1335	1276	1264	1265	1229	1208	1170	1151	1190	1152	1185	1238	1259
67	1185	1202	1199	1200	1260	1201	1189	1188	1160	1136	1094	1078	1115	1080	1112	1161	1185
68	1115	1132	1127	1126	1185	1126	1117	1116	1086	1060	1022	1005	1039	1007	1038	1087	1115
69	1039	1058	1056	1051	1110	1056	1044	1042	1013	987	951	930	962	931	964	1015	1039
70	962	985	981	977	1036	980	973	969	936	914	877	858	881	857	890	941	962
71	886	913	908	904	962	904	900	895	849	841	804	780	750	786	817	868	886
72	798	839	835	832	881	833	827	820	737	764	734	678	680	693	745	794	798
73	692	765	762	761	793	761	753	729	656	660	663	593	608	595	675	710	692
74	618	666	692	682	679	686	684	633	586	585	595	531	539	533	609	615	618
75	546	588	624	583	608	583	615	567	518	524	525	470	474	472	541	548	546
76	480	526	558	517	537	516	548	505	450	462	434	413	412	415	473	485	480
77	416	462	492	458	467	454	480	444	389	403	350	358	353	360	372	426	416
78	353	403	405	399	404	396	390	384	335	346	296	305	294	305	309	368	353
79	286	345	328	343	355	337	311	327	270	285	241	250	233	253	257	304	286
80	235	281	270	290	304	288	252	252	219	217	193	193	189	190	207	241	235
81	184	224	215	235	241	237	199	202	163	168	147	150	149	153	162	192	184
82	134	171	171	183	194	179	155	144	109	108	94	104	98	111	109	139	134
83	89	122	121	134	141	128	108	96	66	62	59	61	61	66	72	88	89
84	52	73	81	87	90	77	62	50	37	33	29	31	28	33	39	51	52
85	26	37	44	50	52	42	32	25	19	17	16	17	15	16	18	23	26
86	12	17	21	26	27	23	18	14	11	10	10	10	9	9	10	11	12
87	6	9	12	14	16	14	11	9	7	6	5	5	3	4	4	5	6
88	3	4	7	8	10	8	6	4	3	2	2	2	1	1	1	2	3
89	1	2	2	3	4	3	2	2	1	1	1	1	0	0	1	1	1
90	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0

2.2 Electrical, Photometric and Chromaticity Measurements
(Refer to Work Instruction QD25)
IES LM-79 2008

Test date	2014-10-11	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	71400		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
140709-34	120.0	60	0.9682	115.7	0.9950	7.13
	277.0	60	0.4505	116.5	0.9336	13.12

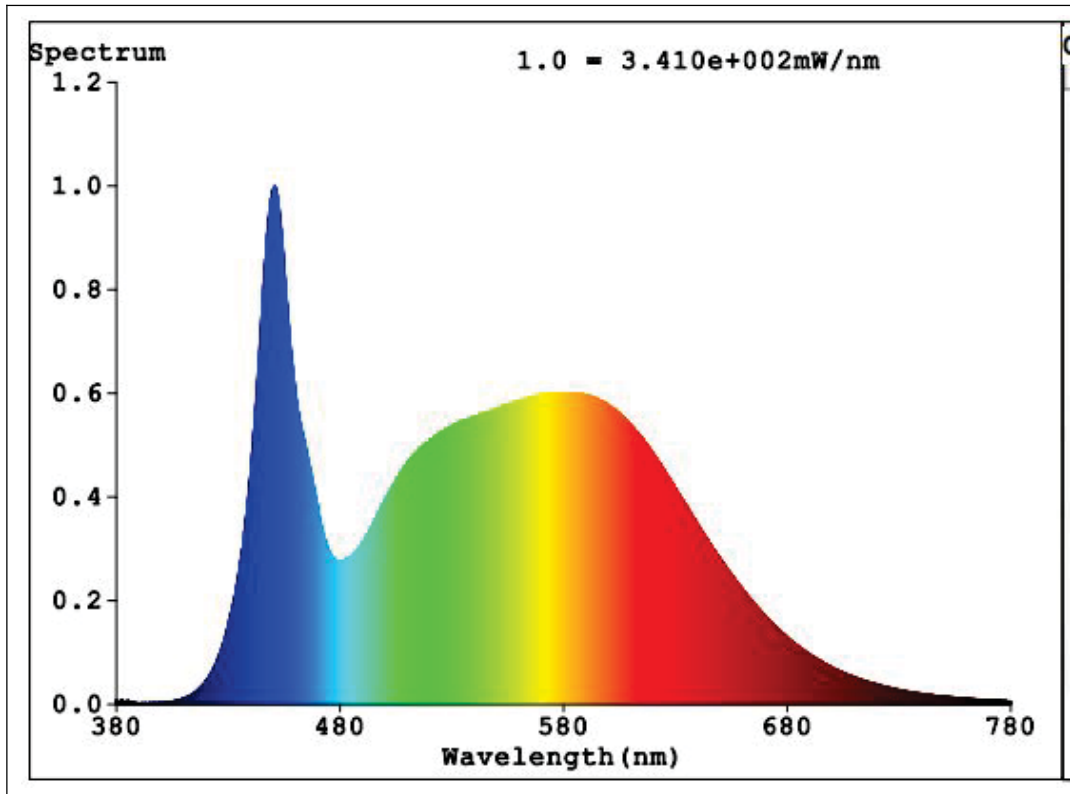
Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	84.0
R9	11
CCT (K)	5193
Chromaticity (x, y)	x=0.3402 y=0.3535
Chromaticity (u', v')	u'=0.2074 v'=0.4849
Duv	0.0029
Total Luminous (lm)	13769
Luminous Efficacy (lm/W)	119.01

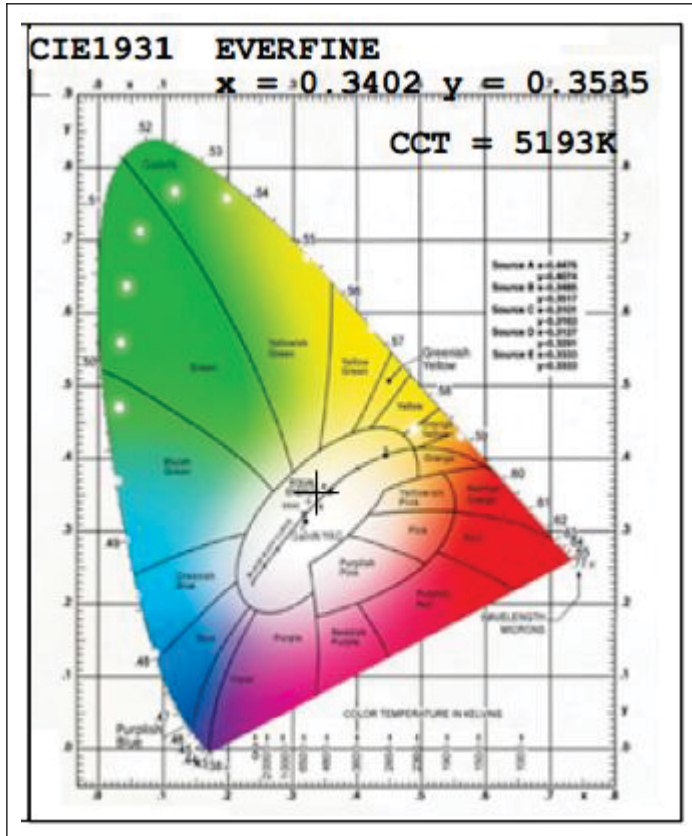
Special Color Rendering Indices			
R1	82	R9	11
R2	89	R10	73
R3	93	R11	83
R4	84	R12	64
R5	83	R13	84
R6	85	R14	96
R7	88	R15	77
R8	69	--	--

Spectral Power Distribution

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	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

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