



Cat# 71575 150 Watts





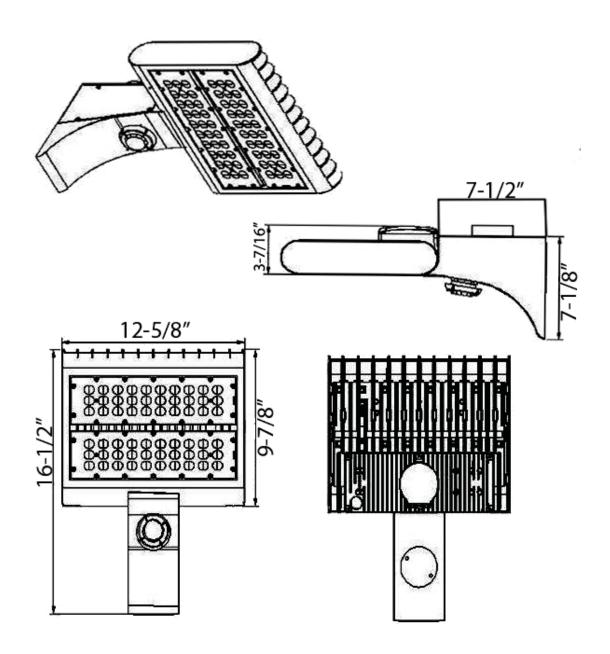




ioo matto				
Pole Mount			L Ro	ol
*Dimmable				
	Model :	71575		

	Model :	71575
	Input Voltage	100-277VAC 50/60HZ
	Input Current	1.8A Max
	Input Power	150W
	Power Factor	PF≥ 0.90
OVERALL LAMP PARAMETERS	Luminance	15,053 LM
PARAMETERS	Luminous Efficiency	105.6 LM/W
	CRI	>83
	Beam Angle	120 x 90°
	Main Structure	Aluminium + PC Lens
	Output Voltage	36-60VDC
LED DRIVER	Output Current	4.4A
	Driver Efficiency	88%
	LED Manufacturer	Philips
	LED Type	3030 LED
LED	LED Quantity	120 PCS
	LED Efficacy	120LM/W
	Color Temperature	5000K
Photocell	-	Not Included
	Lifespan	50000+ Hrs.
LIFESPAN &	Warranty	5 Years
ENVIRONMENT	IP Rating	IP65 Wet Locations
LIVIITOTUILITI	Operating Temperature	-40F to 131F
	Storage Temperature.Humidity	-40°C—+80°C , 10—90% RH
	Safety Norms	UL1598,UL8750, EN60598, EN61347-2-13, EN62031, EN62471
SAFETY&EMC	Withstand Voltage	I/P-FG: 2121VDC
OAI ETTULIVIO	Grounding Resistance	≤0.5Ω,OK
	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547
	Dimension	Pls refer to attached diamension drawing
OTHERS	Q'ty / Carton	1PCS
	Volume	

Dimensions:







LM-79-08 Test Report

For

Morris Products Inc.

53 Carey Rd Queensbury, NY 12804

(Brand Name: Morris)

LED FLOOD LIGHT

Model: 71575

Laboratory: Leading Testing Laboratories

NVLAP CODE: 200960-0 Tel: +86-571-5668.0806 www.ledtestlab.com

Report No.: HZ1511004ld

The laboratory that conducted the testing detailed in this report has been accredited for SSL by NVLAP.

Test specifications:

Date of Receipt : Nov. 30, 2015 Date of Test : Dec. 03, 2015

Test item : Total Luminous Flux, Luminous Distribution Intensity, Luminous Efficacy,

Correlated Color Temperature, Color Rendering Index, Chromaticity

Coordinate, Electrical parameters

Reference Standard : IESNA LM-79-2008 Approved Method for the Electrical and Photometric

Measurements of Solid-State Lighting Products

Reviewed by:

Engineer: April Zou

Dec. 07, 2015

Appro

Manager:

Jim Zhang

Dec. 07, 2015

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



Report No.: HZ15110041d

Test Summary

Sample Tested: 71575

Luminous Efficacy (Lumens /Watt)	 Luminous Flux (Lumens)	Power (Watts)		Power Factor	
105.6	15053.0 142.55			0.9721	
CCT (K)	С	RI	Stabilization Time (Light & Power)		
5238	83	3.5	60		
IES Classification	Longitudinal	Classification	NEMA Type for Flood Fixture		
Type II	Very	Short	7 H x 7 V		

Table 1: Executive Data Summary

Sample Photo

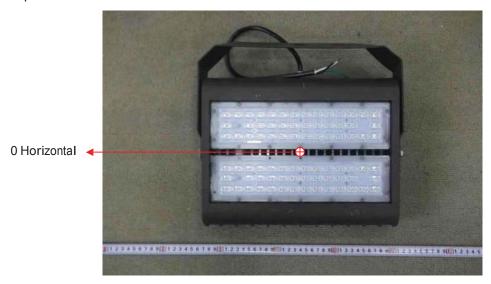


Figure 1- Overview of the sample

Equipment Under Test (EUT)

Name : LED FLOOD LIGHT

Model : 71575

Electrical Ratings : 120~277Vac, 50/60Hz, 150W

Product Description : 5000K, 2 LED bars, Architectural Flood and Spot Luminaires

Manufacturer : Morris Products Inc.

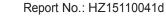
Address : 53 Carey Rd, Queensbury, NY 12804





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TEST RESULTS

Test ambient temperature was 24.3℃.

Sample orientation was light down. Test was conducted without a dimmer in the circuit.

The stabilization time of the sample was <u>60</u> minutes, and the total operating time including stabilization was <u>85</u> minutes.

Goniophotometer Method

The photometric distance is 30m.

Luminous data was taken at <u>0.5</u>° vertical intervals and <u>10</u>° horizontal intervals.

Edifficus data was taken at <u>6.5</u> vertical inter	vals and <u>ro</u> nonzon	tal intervals.				
Parameter	Result					
Test Voltage (V)	120.0	277.0				
Voltage frequency (Hz)	60	60				
Test Current (A)	1.222	0.577				
Power Factor	0.9721	0.9113				
Test Power (W)	142.55	145.75				
THD A%	20.76	21.05				
Luminous Efficacy (Im/W)	105.6					
Total Luminous Flux (Im)	15053.0					
Color Rendering Index (CRI)	83.5					
R9	9					
Correlated Color Temperature (CCT) (K)	5238					
Chromaticity (Chroma x, Chroma y)	(0.3390, 0.3517)					
Chromaticity (Chroma u, Chroma v)	(0.2073, 0.3225)					
Chromaticity (Chroma u , Chroma v)	(0.2073, 0.4838)					
Duv	0.0025					
Average Beam Angle (°)	115.4					
Center Beam Candle Power (cd)	5017					
Spacing Criteria	1.15(0°-180°)/					
	1.29 (90°-270°)					
Zonal Lumens in the 0°-60°Zone	78.11%					
Zonal Lumens in the 60°-90°Zone	21.76%					
Zonal Lumens in the 90°-120°Zone	0.05%					

Special Color									
Rendering									
Indices									
R1	81								
R2	89								
R3	93								
R4	83								
R5	82								
R6	84								
R7	87								
R8	68								
R9	9								
R10	73								
R11	82								
R12	63								
R13	83								
R14	96								

Table 2: Test data per Goniophotometer Method

0.08%

Note: According to CIE 1976 (u ,v) diagram, u = u = 4x/(-2x+12y+3), v = 3v/2 = 9y/(-2x+12y+3).

Zonal Lumens in the 120°-180°Zone





Spectral Power Distribution

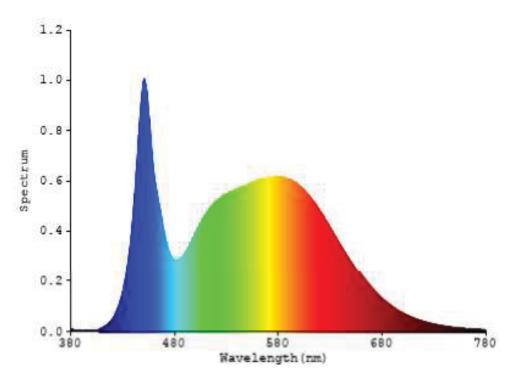


Chart 1: Spectral Power Distribution





IESNA Luminaire Flux Distribution Table

Zone	Lumens	Luminaire %		
FL - Front-Low (0-30)	1915.5	12.7		
FM - Front-Medium (30-60)	3972.0	26.4		
FH - Front-High (60-80)	1523.0	10.1		
FVH - Front-Very High (80-90)	141.5	0.9		
Total Forward Light	7552.0	50.1		
		•		
BL - Back-Low (0-30)	1912.1	12.7		
BM - Back-Medium (30-60)	3959.3	26.3		
BH - Back-High (60-80)	1477.3	9.8		
BVH - Back-Very High (80-90)	134.3	0.9		
Total Back Light	7483.0	49.7		
		•		
UL - Uplight-Low (90-100)	1.2	0.0		
UH - Uplight-High (100-180)	17.3	0.1		
Total Up Light	18.5	0.1		
	•	•		

BUG (Back, Up, Glare) Rating	B3-U2-G3
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Table 3: Flux Distribution Data

Zone	Downward	Upward	Total
Zone	Lumens	Lumens	Lumens
House Side	7483.0	0	7483.0
Street Side	7552.0	0	7552.0

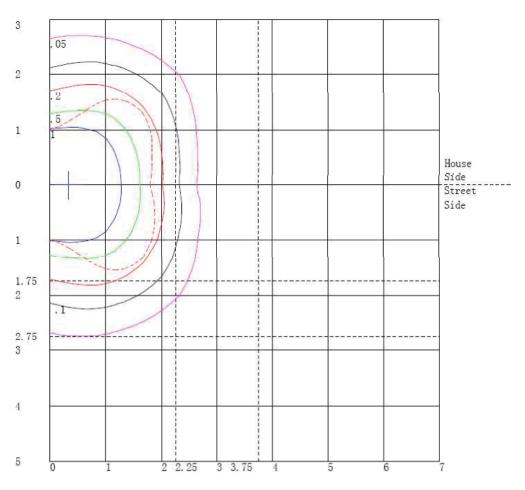
Table 4: Flux Distribution Table

Note: The Flux in this table might be a little different from the total flux in Table 2 due to rounding.





Isoilluminance Plots of Horizontal Illuminance



Distance In Units Of Mounting Height
Values Based On 30 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

Chart 2: Illuminance Plot (Footcandles)

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Luminous Intensity Distribution Plots

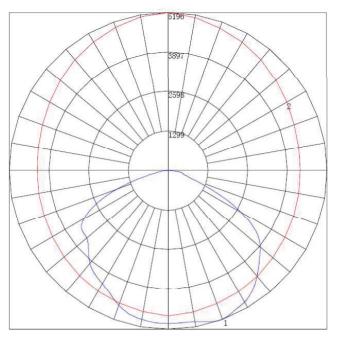


Chart 3: Maximum Plane and Cone Plots of Candela

Maximum Candela = 5195.72 Located At Horizontal Angle = 90, Vertical Angle = 18.5

#1 - Vertical Plane Through Horizontal Angles (90-270) (Through Max. Cd.)

#2 - Horizontal Cone Through Vertical Angle (18.5) (Through Max. Cd.)

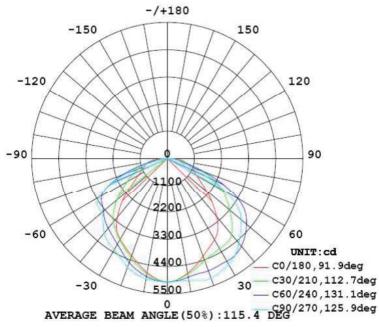


Chart 4: Polar Candela Distribution





Luminous Intensity Data

Table1																UNI	T: cd		
C (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	18
(DEG)	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	501
				3					-	-		-	-	2					-
5	4933	4936	4940	4944	4959	4971	4984	4998	5006	5012	5006	4989	4981	4963	4951	4936	4929	4923	49:
10	4744	4745	4758	4781	4812	4853	4903	4955	5000	5038	5020	4964	4911	4853	4805	4765	4738	4727	47
15 20	4498	4510	4547	4601	4677	4763 4736	4853	4957	5104	5131	5085	4977 5004	4868	4764	4674	4589	4523	4486	44
25	4018	4057	4153	4316	4512	4694	4843	4930	5025	5091	5037	4959	4880	4725	4536	4337	4169	4063	40
30	3837	3895	4036	4250	4484	4694	4835	4904	4955	4997	4965	4936	4883	4749	4537	4271	4037	3885	38
35	3580	3670	3902	4215	4513	4714	4807	4826	4817	4806	4801	4826		4765	4552	4209	3881	3674	35
40	3111	3258	3608	4069	4461	4654	4676	4635	4573	4524	4543	4604	4668	4669	4475	4062	3612	3290	31
45	2585	2786	3189	3719	4221	4473	4462	4379	4284	4213	4243	4326	4424	4472	4244	3728	3207	2825	26
50	2084	2324	2761	3307	3868	4198	4199	4109	4006	3926	3971	4052	4141	4205	3900	3330	2777	2341	21
55	1664	1916	2360	2932	3507	3070	3060	3011	3666	3526	3593	3724	3796	3061	3520	2940	2361	1910	16
60	1379	1616	2035	2568	3057	3324	3308	3183		2750	2884	3074	3252	3300	3062	2553	2011	1586	13
65	1191	1394	1718	2079	2401	2581	2518	2302	2077	1794	1954	2191	2468	2557	2384	2053	1685	1348	11
70	1032	1163	1336	1499	1693	1818	1602	1327	1112	895	996	1229	1546	1795	1655	1453	1281	1116	10
0.70		19970		4.000															-
75 80	870 691	916	951 629	972 550	1049	1052	796 417	649 415	459	546 473	571 457	401	758	1042 475	490	921 521	895 604	683	7:
85	459	438	340	245	184	182	204	286	285	194	243	279	198	174	183	244	356	458	4
90	0.99	0.97	1.02	1.11	1.23	1.33	1.40	1.50	1.53	0.99	1.39	0.72	0.76	0.73	5.55	0.58	1.03	0.75	1.
95	1.17	1.18	1.29	1.45	1.58	1.69	1.74	1.75	1.72	0.62	0.60	0.59	0.59	0.63	0.56	0.52	0.47	0.45	0.
100	4.57	3.90	2.52	1.90	2.01	2.08	-	2.12	2.12	0.83	0.80	0.77	0.79	0.82	0.81	0.77	0.69	0.60	0.
105	15.3	13.3	5.18	2.23	2.25	2.26		2.27	2.32	1.03	0.99	0.94	0.93	0.93	0.92	0.88	0.79	0.73	0.
110	16.3	13.7	4.62	2.38	2.30	2.23		2.20	2.25	1.26	1.22	-	1.13	1.10	1.07	1.02	0.94	0.89	0.
115	15.3	12.7	4.17	2.38	2.23	2.12	2.08	2.09	2.14	1.54	1.48	1.38	1.35	1.31	1.27	1.18	1.14	1.10	1.
120	14.7	11.6	4.03	2.33	2.17	2.05			2.13		1.77		1.63	1.57	1.52	1.45	1.34	1.37	1.
125	14.6	10.9	4.36	2.34	2.20	2.04	-		2.17	2.14		1.98		1.86		1.71	1.59	1.69	1.
130	16.7	11.3	4.91	2.55	2.38	2.23	2.24		2.33	2.30	2.30	2.26	1	2.09	2.04	2.00	2.07	2.18	2.
135	18.0	11.7	5.20	2.88	2.70		2.52	-			2.53			2.33	100	2.25	2.50	2.48	2.
140	16.2	10.6	5.20	3.31	3.01	2.88	2.77	2.81	2.83	2.57	2.61	2.58	2.55	2.53	2.52	2.52	2.69	2.74	2.
145	13.2	9.42	5.25	3.77	3.35	3.12	3.10	3.04	3.03	2.71	2.77	2.79	2.76	2.73	2.83	2.82	2.90	3.00	2.
150	10.7	8.64	5.82	3.95	3.53	3.52	3.43	3.32	3.28	2.83	2.94	3.00	3.03	3.00	2.91	3.21	4.70	4.34	3.
155	4.34	4.37	4.12	3.93	3.98	3.83	3.67	3.51	3.42	2.94	3.09	3.10	3.23	3.20	3.23	3.03	3.02	3.02	2.
160	6.77	6.73	5.99	4.96	4.34	4.05	3.96		3.71	3.10	3.25	3.28		3.44	3.54	3.93	4.72	5.38	5.
165	5.11	5.13	5.04	4.72	4.35	4.28	4.19	-	3.86	3.24	3.42	3.53		3.73	3.82	4.00	4.27	4.45	4.
170	4.40	4.34	4.41	4.43	4.44	4.52	4.43	4.28	4.06	3.46	3.54	3.64		3.82	3.69	3.60	3.61	3.78	3.
175	4.27	4.24	4.41	4.32	4.38	4.49	4.46	4.32	4.23	3.96	4.01	4.02	4.07	4.14	4.02	3.87	3.82	3.79	3.
180	3.98	4.05	3.98	4.03	4.11	4.20	4.13	4.04		3.94	4.01	4.01	4.13	4.18	4.16	4.13	3.94	3.94	3.

Table 5: Luminous Intensity Data





Table2	- 3			-	2 3	- 2		8							-	UNI	T: cd	- 4
(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	
0	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	5017	26
5	4925	4933	4943	4956	4970	4981	4991	4996	5005	5004	4994	4987	4976	4967	4956	4947	4939	98
10	4731	4749	4770	4799	4836	4873	4916	4948	4965	4948	4916	4882	4847	4819	4794	4773	4756	- 36
15	4482	4510	4548	4599	4658	4715	4777	4834	4882	4843	4775	4721	4672	4627	4581	4542	4518	- 8
20	4230	4252	4297	4365	4447	4514	4577	4645	4715	4658	4590	4539	4478	4404	4337	4286	4258	-
25	4013	4028	4062	4114	4187	4266	4343	4411	4481	4432	4368	4322	4244	4164	4095	4049	4024	48
30	3814	3825	3846	3885	3952	4049	4158	4241	4299	4257	4197	4110	4010	3934	3873	3846	3837	- 4%
35	3578	3602	3639	3685	3757	3875	4011	4103	4171	4126	4066	3946	3814	3724	3676	3631	3589	100
40	3164	3275	3408	3508	3608	3731	3846	3912	3983	3955	3908	3795	3662	3547	3424	3262	3134	16
45	2649	2809	3063	3324	3499	3579	3616	3628	3685	3685	3689	3630	3540	3329	3042	2770	2604	1
50	2127	2331	2671	3059	3353	3383	3412	3442	3475	3477	3459	3425	3376	3046	2634	2290	2092	
55	1667	1869	2262	2743	3136	3235	3365	3418	3441	3464	3388	3243	3132	2730	2235	1852	1661	- 8
60	1329	1491	1876	2425	2900	3069	3176	3156	3180	3268	3262	3092	2885	2409	1866	1497	1347	0.5
65	1116	1224	1562	2094	2522	2641	2635	2576	2600	2703	2756	2704	2530	2077	1555	1240	1147	185
70	978	1031	1256	1617	1911	1946	1861	1731	1772	1907	2026	2050	1972	1644	1251	1026	985	100
75	857	832	896	1067	1224	1128	979	816	843	946	1120	1260	1328	1129	916	821	830	100
80	689	612	552	565	623	522	393	320	343	368	454	595	689	611	587	607	658	512
85	470	377	273	227	204	151	136	108	127	142	159	177	234	258	292	370	437	38
90	1.10	0.83	0.56	0.76	0.76	0.65	0.68	0.36	1.16	1.12	1.11	1.18	1.23	1.24	1.19	1.11	1.04	30
95	0.49	0.53	0.55	0.56	0.59	0.55	0.54	0.51	1.33	1.38	1.49	1.60	1.72	1.67	1.60	1.45	1.27	765
100	0.67	0.77	0.82	0.83	0.81	0.77	0.75	0.73	1.78	1.85	1.97	2.07	2.15	2.23	2.20	3.09	4.61	26
105	0.82	0.91	0.96	0.98	0.98	0.98	0.97	0.97	2.16	2.20	2.28	2.35	2.42	2.56	2.64	6.28	14.2	387
110	1.00	1.11	1.15	1.18	1.20	1.22	1.25	1.27	2.22	2.26	2.33	2.37	2.42	2.58	2.77	5.79	14.5	- 100
115	1.25	1.35	1.39	1.43	1.50	1.54	1.58	1.62	2.17	2.21	2.23	2.22	2.27	2.47	2.72	5.36	13.5	48
120	1.53	1.61	1.64	1.71	1.85	1.87	1.91	1.94	2.21	2.22	2.19	2.15	2.14	2.32	2.58	5.18	12.6	9.8
125	1.86	1.92	1.93	2.03	2.17	2.22	2.23	2.32	2.27	2.29	2.27	2.17	2.18	2.32	2.57	5.48	12.3	9.8
130	2.38	2.40	2.21	2.32	2.41	2.53	2.48	2.56	2.50	2.52	2.47	2.46	2.39	2.54	2.79	5.93	13.3	
135	2.71	2.76	2.46	2.51	2.64	2.71	2.74	2.81	2.82	2.88	2.84	2.87	2.83	2.94	3.25	6.30	13.8	70
140	2.78	2.87	2.67	2.68	2.77	2.76	2.87	2.95	3.10	3.20	3.19	3.17	3.24	3.35	3.87	6.37	12.5	10
145	2.97	3.03	2.94	3.02	2.91	2.94	3.07	3.12	3.37	3.46	3.51	3.52	3.51	3.70	4.31	6.45	10.8	20
150	4.39	5.31	3.18	3.09	3.23	3.17	3.19	3.21	3.62	3.67	3.76	3.82	3.80	3.81	4.59	6.74	9.35	26
155	3.06	3.10	3.31	3.54	3.40	3.39	3.31	3.31	3.75	3.81	3.92	4.09	4.19	4.21	4.03	4.25	4.35	98
160	5.27	4.57	4.09	3.82	3.60	3.46	3.42	3.42	3.93	3.96	4.03	4.15	4.27	4.50	4.80	5.41	6.18	68
100	1.10	1.Z1	1.00	3.24	3.71	3.32	3.34	3.47	3.07	3.20	3.33	1.11	1.20	4.00	4.40	1.0Z	1.20	18
170	3.65	3.83	3.87	3.84	3.72	3.60	3.54	3.53	3.96	3.97	4.08	4.22	4.37	4.53	4.53	4.41	4.29	52
175	3.83	3.96	4.08	4.11	4.09	4.04	4.00	3.99	4.08	4.07	4.16	4.24	4.37	4.42	4.49	4.37	4.32	38
180	3.85	3.84	3.95	4.06	3.97	3.88	3.90	3.86	3.92	3.91	3.99	4.02	4.11	4.15	4.15	4.09	4.00	

Table 6: Luminous Intensity Data



Report No.: HZ15110041d

EQUIPMENT LIST

Test Equipment	Model	Equipment No.	Calibration	Calibration Due	
1. 1. h			Date	date	
Goniophotometer system	GO-R5000	HZTE011-01	Jul. 17, 2015	Jul. 16, 2016	
Digital Power Meter	PF2010A	HZTE028-01	Jul. 17, 2015	Jul. 16, 2016	
AC Power Supply	PCR 500L	HZTE001-08	Jul. 17, 2015	Jul. 16, 2016	
DC Power Supply	WY12010	HZTE004-03	Jul. 17, 2015	Jul. 16, 2016	
Temperature Meter	TES1310	HZTE017-01	Jul. 17, 2015	Jul. 16, 2016	
Standard Source	D908	HZTE012-01	Jul. 23, 2015	Jul. 22, 2016	
Standard source	SCL-1400	HZTE012-02	Oct. 21, 2015	Oct. 20, 2016	

Table 7: Test Equipment List

TEST METHODS

Seasoning of SSL Product

For the purpose of rating new SSL products, SSL products shall be tested with no seasoning. Therefore, no seasoning was performed.

Goniophotometer Method

Photometric and Electrical Measurements

An EVERFINE Type C Model GO-R5000 Goniophotometer was used to measure the intensity at each angle of distribution for each sample. The photometric distance is 2.475m for near-field measurement or 30m for far-field measurement. Bandwidth of spectroradiometer is 380nm-780nm.

Ambient temperature was measured at the same height of the sample mounted on the Goniophotometer equipment. Each SSL unit was operated on the client provided driver at the rated input voltage in its designated orientation.

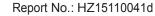
The stabilization time typically ranges from 30 min (small integrated LED lamps) to 2 or more hours for large SSL luminaires). It can be judged that stability is reached when the variation (maximum minimum) of at least 3 readings of the light output and electrical power over a period of 30 min, taken 15 minutes apart, is less than 0.5 %.

Electrical measurements including voltage, current, and power were measured using the Everfine Digital Power Meter.

Some graphics were created with Photometric Plus software.

The standard reference of the Goniophotometer system is halogen incandescent lamp, the intensity distribution type is omni-directional, and is traceable to the National Institute of Metrology P.R. China.

The uncertainty of goniophotometer system reported in this document is expended uncertainty is 1.8% with a coverage factor k=2.





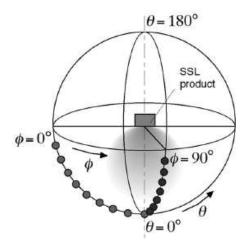
Color Characteristics Measurements

The color characteristics of SSL products include chromaticity coordinates, correlated color temperature, and color rendering index. These characteristics of SSL products may be spatially non-uniform, and thus, in order that they can be specified accurately, the color quantities shall be measured as values that are spatially average, weighted to intensity, over the angular range where light is intentionally emitted from the SSL product. The color characteristics measurements are using gonio-spectroradiometer.

Color Spatial Uniformity

The characteristics of SSL products may be spatially non-uniform, the chromaticity coordinate shall be measured at two vertical planes ($C=0^{\circ}/180^{\circ}$ and $C=90^{\circ}/270^{\circ}$) and at 10° or less intervals for vertical angle until the light output dropped to below 10% of the peak intensity. The averaged weighted chromaticity coordinate was calculated from these points. The data was then analyzed to check for delta color differences of the u', v' chromaticity coordinates. The spatial non-uniformity of chromaticity, Δ u'v', is determined as the maximum deviation (distance on the CIE (u', v') diagram) among all measured points from the spatially averaged chromaticity coordinate.

The geometry for the chromaticity measurement using gonio-spectroradiometer is shown as following.



*** End of Report ***

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