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## Photometric Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
**Specialty Lighting Industries, Inc**

Awi Salomon  
1306 Doris Ave  
Ocean, NJ 07712-4041  
United States

Catalog Number  
**888-WIDE-WHT**

Order Number  
10844566  
Test Number  
1111315

Test Date

2015-06-22 - 2015-06-23

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.  
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Laboratory results may not be representative of field performance  
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the  $4\pi$  geometry method.  
Absorption correction was employed for Sphere measurement



**Luminaire Description:** Aluminum heatsink, white steel housing / trim, plastic frosted patterned lens, white plastic reflectors  
**Lamp:** 10 white LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** One Hatch XTC32-0700P-UNV-I

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 1.25 in.  
Luminous Width: 12.00 in.

**Summary of Results**

**Integrating Sphere**

Luminous Flux: 1306 Lumens  
Efficacy: 54.3 lm/w  
CCT: 2989 K  
CRI (Ra): 81.6

**Distribution**

Total Luminaire Output: 1290 Lumens  
Luminaire Efficacy: 53.6 lm/w  
Maximum Candela: 1364 Candela

**Electrical Data at 120 VAC**

Test Temperature: 25.9 °C  
Voltage: 120.0 VAC  
Current: 0.2014 A  
Power: 24.07 W  
Power Factor: 0.995  
Frequency: 60 Hz  
Current THD: 8.74 %



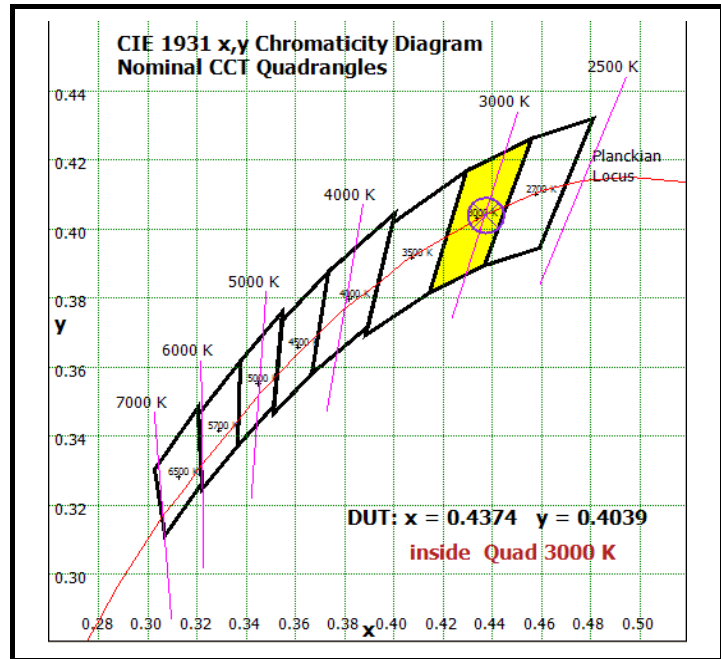
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.0 VAC	0.2014 A	24.07 W	0.995	60 Hz	8.74 %

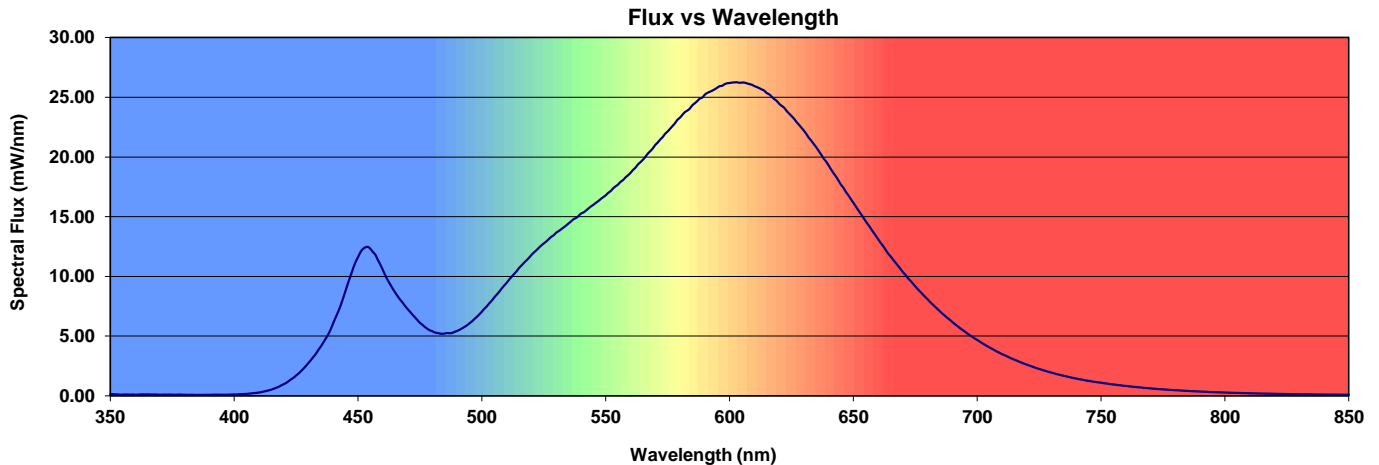
### Summary of Results

<b>Total Output:</b>	1306 Lumens
<b>Efficacy:</b>	54.3 lm/w
<b>CCT:</b>	2989 K
<b>CRI (Ra):</b>	81.6
<b>CRI (R9):</b>	7.7
Chromaticity (x):	0.4374
Chromaticity (y):	0.4039
Chromaticity (u):	0.2510
Chromaticity (v):	0.3476
Chromaticity (u')	0.2510
Chromaticity (v')	0.5214
Duv:	-0.0003



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.6	79.7	89.7	96.4	78.5	79.1	86.3	83.3	59.5	7.7	75.3	75.9	67.1	81.9	98.2





## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.2015 A	24.06 W	0.996	60 Hz	8.65 %

### Summary of Results

#### Spacing Criteria

0-180: 0.74

90-270: 0.74

Total Lumen Output:

1290 Lumens

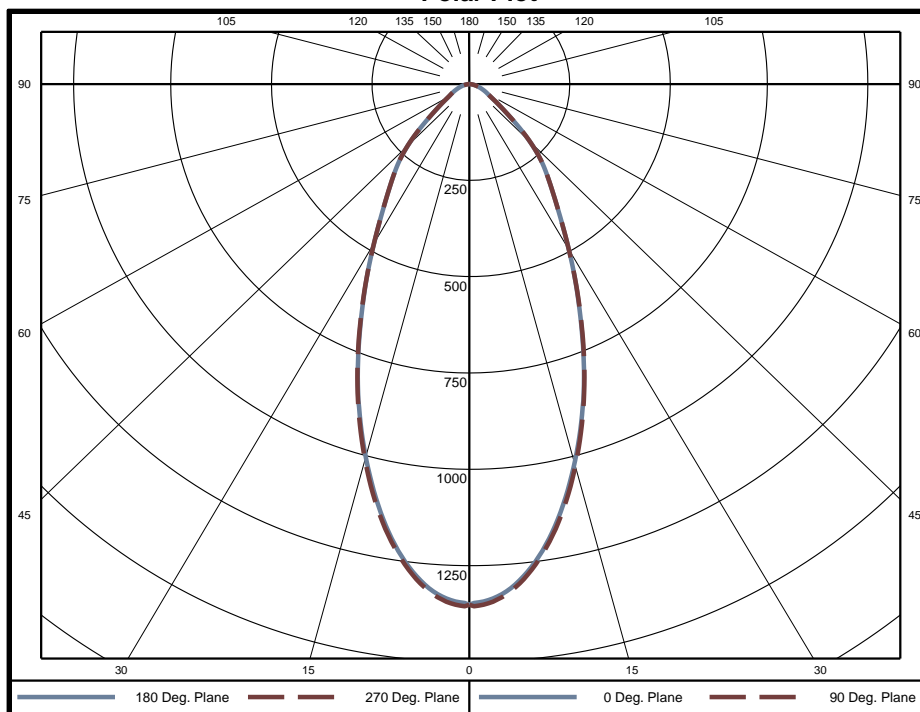
Luminaire Efficacy:

53.6 lm/w

Maximum Candela:

1364 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	31.8	2.5%	60-65	24.4	1.9%	120-125	0	0.0%
5-10	89.1	6.9%	65-70	18.3	1.4%	125-130	0	0.0%
10-15	130.3	10.1%	70-75	13.0	1.0%	130-135	0	0.0%
15-20	151.7	11.8%	75-80	8.4	0.7%	135-140	0	0.0%
20-25	154.3	12.0%	80-85	4.5	0.3%	140-145	0	0.0%
25-30	143.7	11.1%	85-90	1.2	0.1%	145-150	0	0.0%
30-35	128.4	10.0%	90-95	0	0.0%	150-155	0	0.0%
35-40	114.9	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	102.2	7.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	82.3	6.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	56.6	4.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	35.5	2.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	944	73.2%
0-60	1221	94.6%
0-90	1291	100.0%
90-180	0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)															
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352
5	1304	1303	1300	1320	1311	1320	1300	1303	1304	1303	1300	1320	1311	1320	1300	1303
10	1181	1182	1179	1196	1188	1196	1179	1182	1181	1182	1179	1196	1188	1196	1179	1182
15	1012	1013	1012	1027	1019	1027	1012	1013	1012	1013	1012	1027	1019	1027	1012	1013
20	830	828	827	839	832	839	827	828	830	828	827	839	832	839	827	828
25	646	647	647	656	648	656	647	647	646	647	647	656	648	656	647	647
30	491	496	498	501	490	501	498	496	491	496	498	501	490	501	498	496
35	373	385	395	388	373	388	395	385	373	385	395	388	373	388	395	385
40	293	309	325	310	293	310	325	309	293	309	325	310	293	310	325	309
45	214	243	269	243	214	243	269	243	214	243	269	243	214	243	269	243
50	129	160	213	159	130	159	213	160	129	160	213	159	130	159	213	160
55	80	93	131	93	81	93	131	93	80	93	131	93	81	93	131	93
60	55	58	67	58	56	58	67	58	55	58	67	58	56	58	67	58
65	41	43	43	43	42	43	43	43	41	43	43	43	42	43	43	43
70	29	30	30	30	29	30	30	30	29	30	30	30	29	30	30	30
75	20	20	20	20	19	20	20	20	20	20	20	20	19	20	20	20
80	12	12	12	12	11	12	12	12	12	12	12	12	11	12	12	12
85	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
90	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
100	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
110	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
120	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
130	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
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	139700	139700	139700
45	31230	39330	31330
55	14420	23670	14600
65	10040	10560	10160
75	7814	7981	7756
85	6131	5703	5558



### Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	1536	1536	1536	1536	1501	1501	1501	1501	1434	1434	1434	1373	1373	1373	1317	1317	1317	1290
1	1447	1404	1365	1330	1414	1375	1340	1308	1322	1294	1268	1274	1251	1230	1229	1211	1194	1170
2	1357	1281	1217	1164	1327	1258	1200	1151	1215	1167	1125	1175	1136	1101	1138	1106	1078	1054
3	1272	1172	1095	1034	1244	1154	1082	1025	1118	1058	1008	1086	1035	992	1055	1013	976	953
4	1194	1078	993	928	1168	1062	983	922	1033	965	911	1006	947	900	980	930	889	866
5	1122	995	906	841	1099	982	899	837	958	885	829	935	871	821	913	858	814	792
6	1056	922	832	768	1035	911	827	765	891	815	759	871	805	754	853	794	748	727
7	996	858	769	706	977	849	764	704	831	755	700	815	747	696	799	738	692	671
8	942	802	714	653	925	794	710	651	779	703	648	764	696	645	751	689	642	622
9	892	751	665	607	877	745	662	606	731	656	603	719	650	601	708	645	599	579
10	847	707	623	567	833	701	620	566	689	615	564	679	610	562	668	606	560	542

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	84.5	2.96
6.00	37.5	4.44
8.00	21.1	5.92
10.0	13.5	7.41
12.0	9.39	8.89
14.0	6.90	10.4
16.0	5.28	11.8

### Cone of Light Plot

