



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



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-NARROW-WHT

Order Number
10844566
Test Number
1111317

Test Date

2015-06-22 - 2015-06-23

Prepared By

Derek Smarr, Technician

Approved By

Kyle Spaziani, Project Handler

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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 4π 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: 1724 Lumens
Efficacy: 71.3 lm/w
CCT: 3027 K
CRI (Ra): 81.7

Distribution

Total Luminaire Output: 1699 Lumens
Luminaire Efficacy: 70.3 lm/w
Maximum Candela: 4289 Candela

Electrical Data at 120 VAC

Test Temperature: 25.6 °C
Voltage: 120.0 VAC
Current: 0.2023 A
Power: 24.17 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 8.92 %



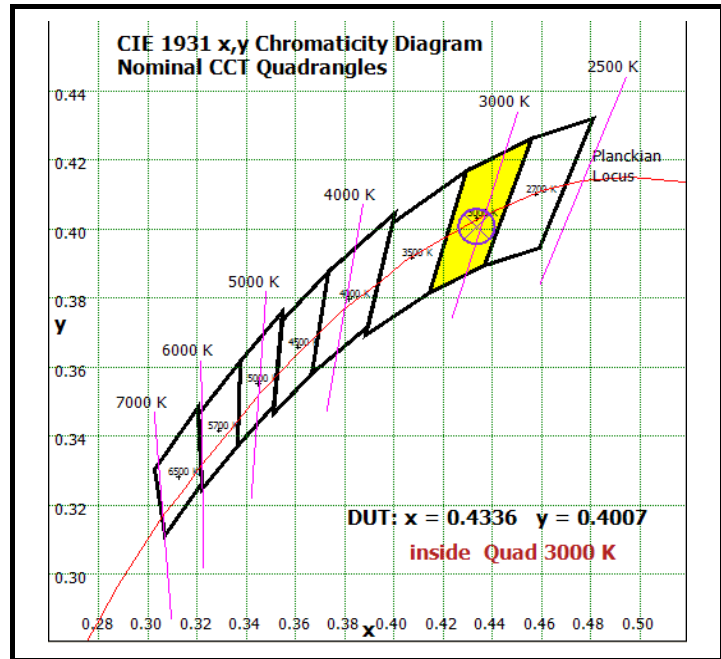
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	120.0 VAC	0.2023 A	24.17 W	0.995	60 Hz	8.92 %

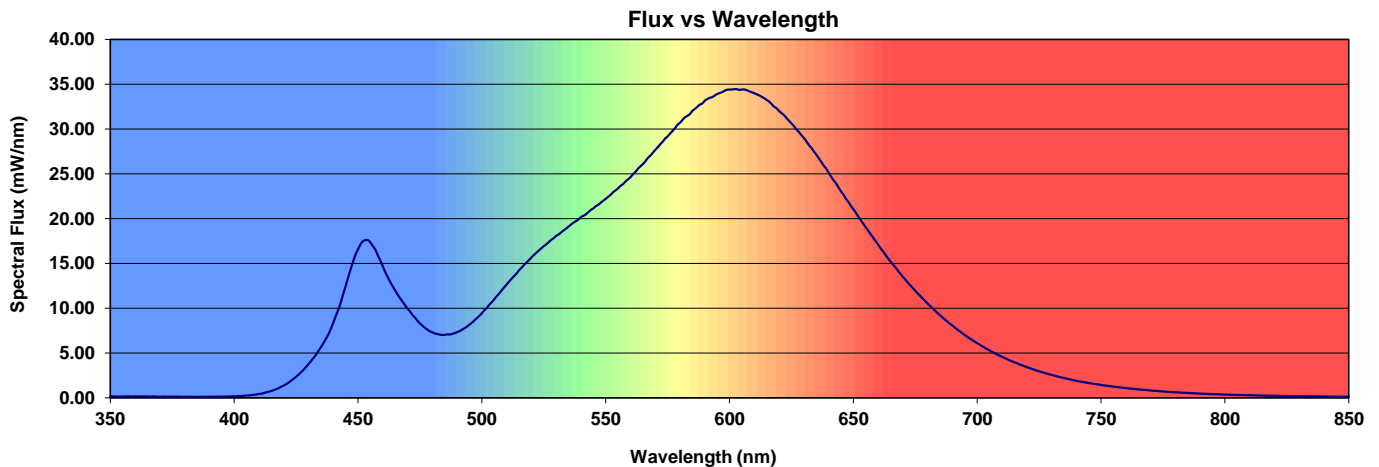
Summary of Results

Total Output:	1724 Lumens
Efficacy:	71.3 lm/w
CCT:	3027 K
CRI (Ra):	81.7
CRI (R9):	8.3
Chromaticity (x):	0.4336
Chromaticity (y):	0.4007
Chromaticity (u):	0.2499
Chromaticity (v):	0.3464
Chromaticity (u')	0.2499
Chromaticity (v')	0.5195
Duv:	-0.0010



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.7	80.0	90.0	96.3	78.6	79.5	86.6	83.2	59.7	8.3	75.9	76.0	67.7	82.3	98.2





Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	0.2023 A	24.16 W	0.995	60 Hz	8.83 %

Summary of Results

Spacing Criteria

0-180: 0.53

90-270: 0.53

Total Lumen Output:

1699 Lumens

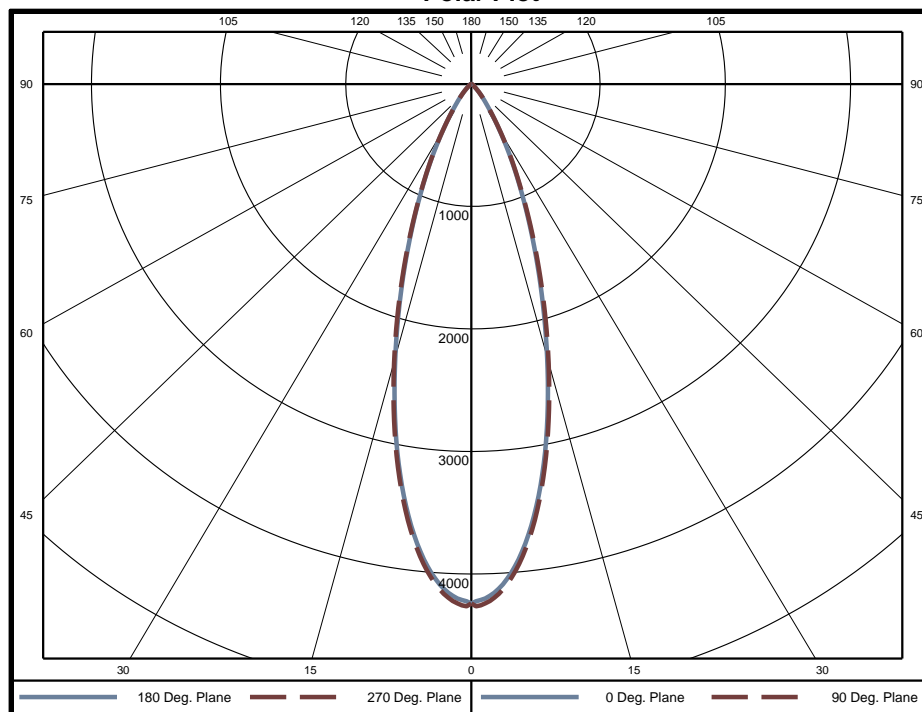
Luminaire Efficacy:

70.3 lm/w

Maximum Candela:

4289 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	98.2	5.8%	60-65	6.4	0.4%	120-125	0	0.0%
5-10	257.7	15.2%	65-70	5.0	0.3%	125-130	0	0.0%
10-15	329.2	19.4%	70-75	3.8	0.2%	130-135	0	0.0%
15-20	312.6	18.4%	75-80	2.6	0.2%	135-140	0	0.0%
20-25	246.6	14.5%	80-85	1.5	0.1%	140-145	0	0.0%
25-30	172.5	10.2%	85-90	0.5	0.0%	145-150	0	0.0%
30-35	109.6	6.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	66.9	3.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	40.1	2.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	23.1	1.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	14.1	0.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	9.3	0.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1593	93.8%
0-60	1680	98.9%
0-90	1700	100.0%
90-180	0	0.0%



Candela Tabulation
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	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
5	3954	3947	3944	4017	3992	4017	3944	3947	3954	3947	3944	4017	3992	4017	3944	3947
10	3235	3237	3234	3295	3268	3295	3234	3237	3235	3237	3234	3295	3268	3295	3234	3237
15	2319	2329	2333	2380	2357	2380	2333	2329	2319	2329	2333	2380	2357	2380	2333	2329
20	1496	1501	1506	1538	1523	1538	1506	1501	1496	1501	1506	1538	1523	1538	1506	1501
25	888	891	898	914	902	914	898	891	888	891	898	914	902	914	898	891
30	480	504	516	516	489	516	516	504	480	504	516	516	489	516	516	504
35	241	266	299	269	244	269	299	266	241	266	299	269	244	269	299	266
40	125	143	172	144	127	144	172	143	125	143	172	144	127	144	172	143
45	63	75	99	75	62	75	99	75	63	75	99	75	62	75	99	75
50	34	40	54	39	33	39	54	40	34	40	54	39	33	39	54	40
55	22	26	29	25	22	25	29	26	22	26	29	25	22	25	29	26
60	14	15	18	15	14	15	18	15	14	15	18	15	14	15	18	15
65	11	11	12	11	11	11	12	11	11	11	12	11	11	11	12	11
70	8	9	9	9	8	9	9	9	8	9	9	9	8	9	9	9
75	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
80	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
85	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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/m²)
Horizontal Angle (Degrees)

	0	45	90
0	438200	438200	438200
45	9242	14440	9094
55	3998	5240	3942
65	2647	2813	2661
75	2317	2429	2328
85	2132	2042	1959



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	2023	2023	2023	2023	1976	1976	1976	1976	1888	1888	1888	1808	1808	1808	1734	1734	1734	1699
1	1939	1896	1857	1822	1897	1859	1825	1794	1791	1764	1738	1728	1707	1687	1670	1654	1638	1609
2	1856	1782	1720	1669	1820	1753	1697	1650	1699	1653	1614	1649	1612	1580	1603	1574	1547	1521
3	1778	1681	1606	1547	1745	1658	1590	1534	1615	1557	1510	1574	1527	1487	1537	1498	1464	1440
4	1704	1592	1509	1446	1675	1573	1497	1438	1537	1472	1421	1505	1449	1405	1474	1428	1389	1366
5	1635	1511	1425	1361	1609	1496	1415	1355	1467	1397	1343	1440	1379	1332	1414	1362	1321	1298
6	1570	1438	1350	1287	1547	1426	1343	1283	1402	1329	1275	1379	1315	1266	1358	1302	1258	1236
7	1509	1373	1284	1223	1488	1362	1279	1219	1342	1267	1213	1322	1256	1207	1305	1246	1201	1180
8	1452	1312	1225	1165	1433	1303	1220	1163	1286	1211	1158	1270	1203	1153	1255	1194	1149	1129
9	1398	1257	1171	1113	1381	1250	1168	1111	1235	1160	1108	1221	1153	1104	1208	1146	1101	1081
10	1348	1207	1122	1066	1333	1200	1119	1065	1187	1113	1062	1175	1107	1059	1164	1102	1057	1038

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	265	2.14
6.00	118	3.21
8.00	66.3	4.28
10.0	42.4	5.35
12.0	29.5	6.41
14.0	21.6	7.48
16.0	16.6	8.55

Cone of Light Plot

