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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-NARROW-BLK

Order Number
10844566
Test Number
1111318

Test Date

2015-06-22 - 2015-06-23

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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, black 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: 1622 Lumens
Efficacy: 66.8 lm/w
CCT: 3033 K
CRI (Ra): 82.3

Distribution

Total Luminaire Output: 1644 Lumens
Luminaire Efficacy: 67.7 lm/w
Maximum Candela: 4394 Candela

Electrical Data at 120 VAC

Test Temperature: 25.8 °C
Voltage: 120.0 VAC
Current: 0.2032 A
Power: 24.28 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 8.84 %



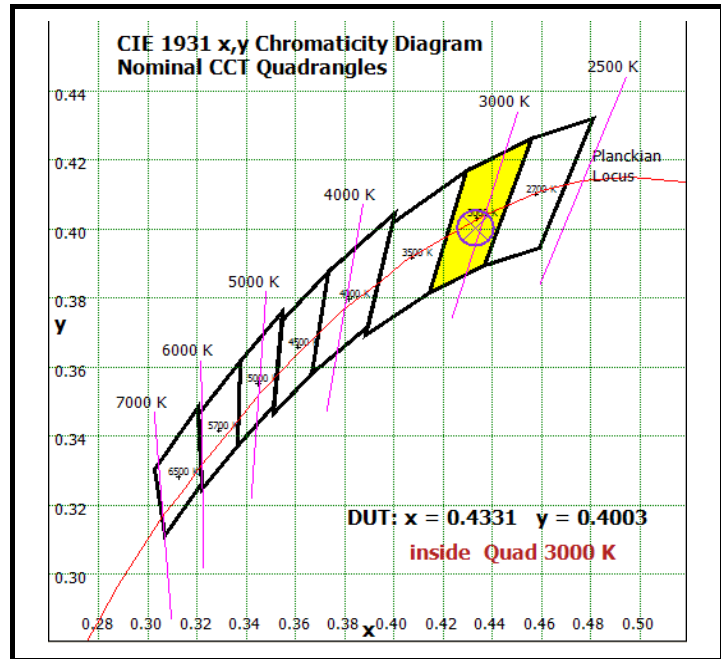
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.2032 A	24.28 W	0.995	60 Hz	8.84 %

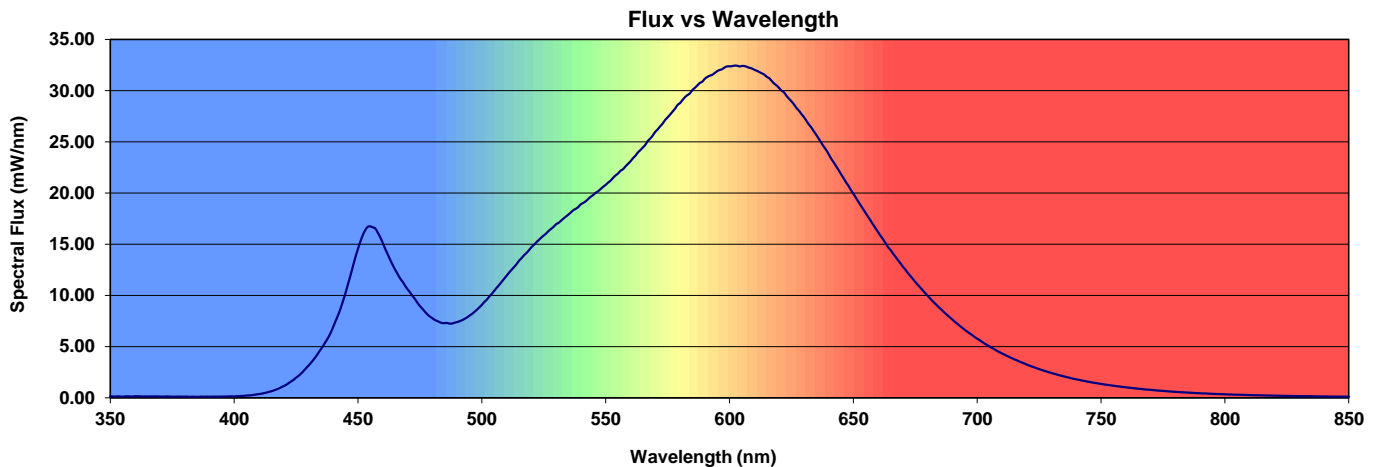
Summary of Results

Total Output:	1622 Lumens
Efficacy:	66.8 lm/w
CCT:	3033 K
CRI (Ra):	82.3
CRI (R9):	10.4
Chromaticity (x):	0.4331
Chromaticity (y):	0.4003
Chromaticity (u):	0.2497
Chromaticity (v):	0.3462
Chromaticity (u')	0.2497
Chromaticity (v')	0.5193
Duv:	-0.0010



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.3	80.8	91.1	96.3	78.8	80.4	88.1	83.0	60.3	10.4	78.3	76.3	69.2	83.3	98.5





Distribution - Goniophotometer

Distribution Test Conditions

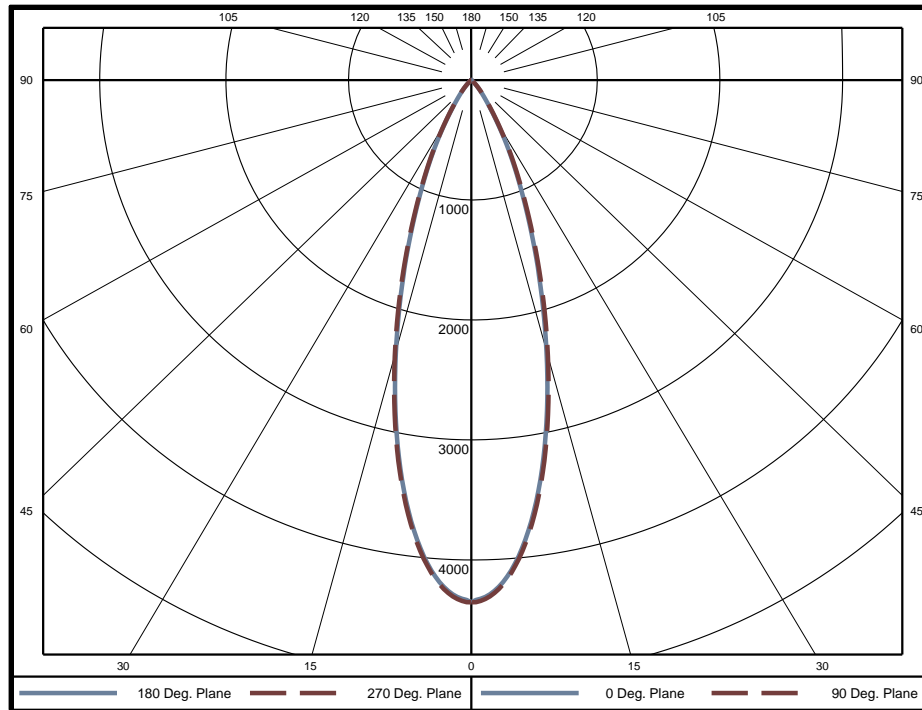
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2033 A	24.28 W	0.996	60 Hz	8.74 %

Summary of Results

Spacing Criteria
 0-180: 0.52
 90-270: 0.52

Total Lumen Output: 1644 Lumens
Luminaire Efficacy: 67.7 lm/w
Maximum Candela: 4394 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	100.7	6.1%	60-65	0.4	0.0%	120-125	0	0.0%
5-10	263.2	16.0%	65-70	0.2	0.0%	125-130	0	0.0%
10-15	334.4	20.3%	70-75	0.1	0.0%	130-135	0	0.0%
15-20	315.2	19.2%	75-80	0.1	0.0%	135-140	0	0.0%
20-25	245.8	15.0%	80-85	0.1	0.0%	140-145	0	0.0%
25-30	168.4	10.2%	85-90	0.1	0.0%	145-150	0	0.0%
30-35	102.6	6.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	58.7	3.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	31.5	1.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	14.7	0.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	6.1	0.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	2.1	0.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1589	96.7%
0-60	1643	100.0%
0-90	1644	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	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353	4353
5	4046	4053	4043	4107	4064	4107	4043	4053	4046	4053	4043	4107	4064	4107	4043	4053
10	3291	3301	3301	3357	3318	3357	3301	3301	3291	3301	3301	3357	3318	3357	3301	3301
15	2348	2366	2365	2405	2384	2405	2365	2366	2348	2366	2365	2405	2384	2405	2365	2366
20	1495	1506	1514	1546	1527	1546	1514	1506	1495	1506	1514	1546	1527	1546	1514	1506
25	872	879	885	907	897	907	885	879	872	879	885	907	897	907	885	879
30	453	481	494	499	471	499	494	481	453	481	494	499	471	499	494	481
35	210	237	275	250	223	250	275	237	210	237	275	250	223	250	275	237
40	98	116	150	123	106	123	150	116	98	116	150	123	106	123	150	116
45	39	51	77	53	41	53	77	51	39	51	77	53	41	53	77	51
50	14	20	34	20	14	20	34	20	14	20	34	20	14	20	34	20
55	5	8	12	8	5	8	12	8	5	8	12	8	5	8	12	8
60	1	1	4	1	1	1	4	1	1	1	4	1	1	1	4	1
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	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
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	449800	449800	449800
45	5760	11300	6059
55	962	2133	944
65	97	101	86
75	106	100	105
85	216	202	220



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	1958	1958	1958	1958	1912	1912	1912	1912	1827	1827	1827	1749	1749	1749	1678	1678	1678	1644
1	1881	1842	1806	1775	1841	1806	1775	1746	1741	1716	1693	1680	1661	1643	1624	1609	1596	1567
2	1806	1738	1682	1634	1771	1710	1659	1616	1659	1617	1581	1611	1577	1548	1566	1540	1516	1491
3	1735	1646	1577	1522	1704	1624	1561	1510	1582	1530	1487	1544	1500	1464	1508	1472	1442	1419
4	1667	1563	1487	1429	1639	1545	1475	1421	1511	1452	1405	1480	1430	1389	1451	1409	1373	1351
5	1602	1488	1408	1350	1578	1474	1399	1344	1446	1382	1332	1420	1365	1321	1396	1348	1310	1289
6	1541	1420	1339	1280	1520	1408	1332	1276	1385	1318	1268	1363	1305	1260	1343	1292	1252	1232
7	1484	1358	1276	1219	1464	1348	1271	1216	1328	1260	1210	1310	1249	1204	1293	1239	1198	1178
8	1430	1301	1220	1164	1412	1292	1215	1162	1276	1206	1157	1260	1198	1152	1246	1190	1148	1129
9	1379	1248	1168	1114	1363	1241	1165	1112	1227	1158	1109	1214	1151	1105	1201	1144	1102	1084
10	1332	1200	1121	1069	1317	1194	1118	1067	1182	1112	1065	1170	1107	1062	1159	1101	1060	1042

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	272	2.12
6.00	121	3.18
8.00	68.0	4.23
10.0	43.5	5.29
12.0	30.2	6.35
14.0	22.2	7.41
16.0	17.0	8.47

Cone of Light Plot

