



7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

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

Prepared For
Specialty Lighting Industries, Inc.
Awi Salomon
1306 Doris Avenue
Ocean, NJ 07712

Catalog Number
601-LED
Project Number
10047370
Test Number
282888

Test Date

2013-12-26

Prepared By

Handwritten signature of Tammy Lacey in black ink.

Tammy Lacey, Administrative Assistant II

Approved By

Handwritten signature of Kyle Spaziani in black ink.

Kyle Spaziani, Project Handler

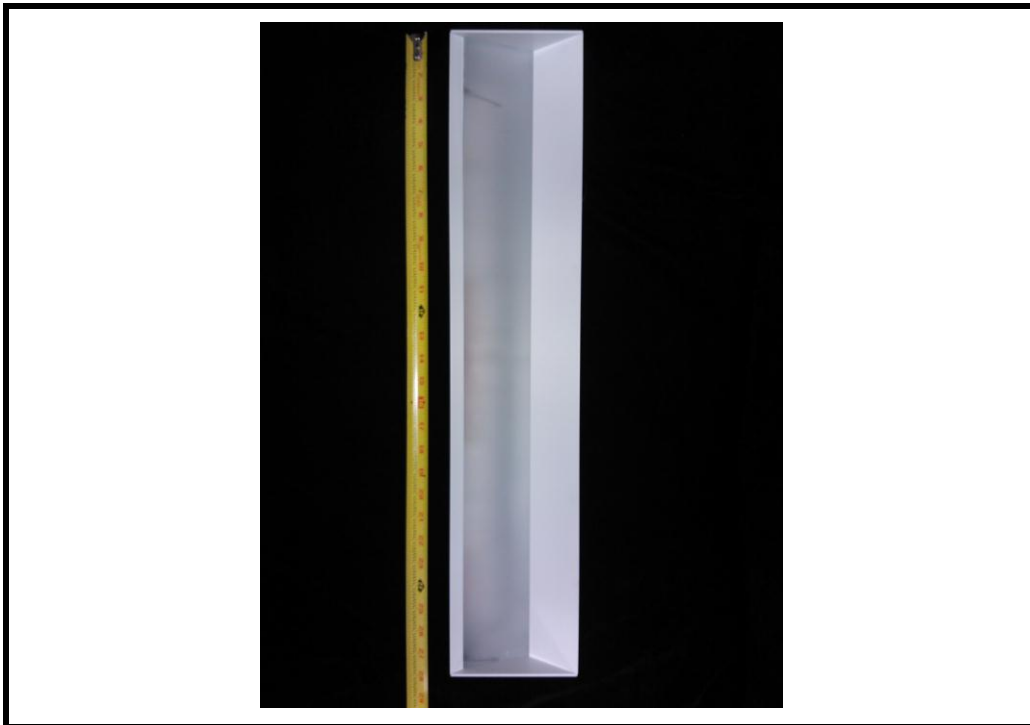
The results contained in this report pertain only to the tested sample.
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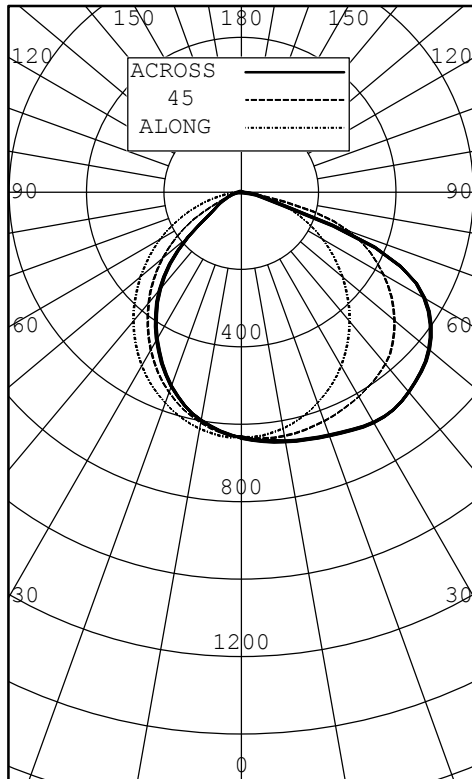
Luminaire Description: White aluminum housing, white aluminum reflector, frosted plastic enclosure
Catalog Number: 601-LED
Lamp: 44 white LEDs
Mounting: Recessed
Ballast/Driver: One Philips Advance Xitanium XI075C200V054XPT1

Luminaire



Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.2375 A
Power:	27.97 W
Power Factor:	0.981
Frequency:	60 Hz
Current THD:	17.7 %



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	BEAM SIDE					OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	
0	634	634	634	634	634	
5	632	636	640	641	646	31
10	621	630	640	647	655	
15	603	619	637	652	662	90
20	579	602	629	654	669	
25	551	582	620	658	678	143
30	517	557	609	662	687	
35	478	527	596	659	686	185
40	435	495	579	644	674	
45	389	461	553	622	657	208
50	342	424	516	595	633	
55	292	382	474	558	597	207
60	243	328	424	510	546	
65	192	277	367	442	455	171
70	143	221	298	304	253	
75	96	161	193	85	67	74
80	53	97	51	40	38	
85	19	21	12	5	3	11
90	0	0	0	0	0	

BOTH SIDES
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	493	27.82
0-40	811	45.74
0-60	1438	81.14
0-90	1773	100.00
40-90	962	54.26
60-90	334	18.86
90-180	0	0.00
0-180	1773	100.00

EFFICACY (LUMENS PER WATT): 63.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 4.750 INS
 WIDTH: 24.130 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	BEAM SIDE		
	ALONG	45	ACROSS
45	7439	10608	12611
55	6884	11208	14138
65	6143	11784	14618
75	5016	10085	3514
85	2948	1882	404

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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BEAM SIDE
 INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	
0.0	634	634	634	634	634	634	
2.5	634	636	637	637	641	637	
5.0	632	636	640	641	646	639	31
7.5	627	634	641	644	650	639	
10.0	621	630	640	647	655	639	
12.5	613	625	639	650	658	637	
15.0	603	619	637	652	662	635	90
17.5	592	611	633	653	666	631	
20.0	579	602	629	654	669	627	
22.5	566	592	625	656	673	623	
25.0	551	582	620	658	678	619	143
27.5	535	570	615	660	684	614	
30.0	517	557	609	662	687	607	
32.5	498	543	603	661	688	600	
35.0	478	527	596	659	686	591	185
37.5	457	511	588	653	681	580	
40.0	435	495	579	644	674	568	
42.5	413	479	568	633	666	555	
45.0	389	461	553	622	657	540	208
47.5	366	443	535	609	646	523	
50.0	342	424	516	595	633	506	
52.5	317	404	496	577	617	486	
55.0	292	382	474	558	597	465	207
57.5	267	353	450	536	574	440	
60.0	243	328	424	510	546	414	
62.5	218	304	397	480	509	386	
65.0	192	277	367	442	455	352	171
67.5	167	250	335	386	374	310	
70.0	143	221	298	304	253	255	
72.5	119	191	253	186	114	187	
75.0	96	161	193	85	67	130	74
77.5	74	129	114	55	52	90	
80.0	53	97	51	40	38	58	
82.5	35	59	27	24	22	35	
85.0	19	21	12	5	3	12	11
87.5	7	4	1	1	1	2	
90.0	0	0	0	0	0	0	

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OPPOSITE SIDE TO BEAM
 INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	
0.0	634	634	634	634	634	634	
2.5	634	632	629	626	628	629	
5.0	632	627	623	618	620	624	30
7.5	627	621	615	610	611	616	
10.0	621	613	605	599	600	607	
12.5	613	603	594	587	586	596	
15.0	603	591	581	572	570	583	82
17.5	592	578	566	555	552	568	
20.0	579	564	550	537	533	552	
22.5	566	549	532	517	511	534	
25.0	551	532	513	495	488	515	118
27.5	535	514	492	472	464	494	
30.0	517	495	470	448	438	473	
32.5	498	474	447	424	413	450	
35.0	478	452	423	399	387	427	133
37.5	457	430	399	373	359	402	
40.0	435	406	374	345	329	377	
42.5	413	381	349	316	297	350	
45.0	389	355	323	285	263	322	124
47.5	366	330	296	252	225	293	
50.0	342	304	267	216	182	262	
52.5	317	278	239	177	137	230	
55.0	292	252	209	136	101	198	89
57.5	267	226	178	99	84	170	
60.0	243	200	146	78	73	145	
62.5	218	174	112	66	63	123	
65.0	192	148	79	57	54	102	51
67.5	167	123	56	47	44	83	
70.0	143	99	46	40	38	69	
72.5	119	76	37	33	31	55	
75.0	96	53	30	26	25	42	23
77.5	74	34	23	20	19	31	
80.0	53	21	17	15	14	21	
82.5	35	14	11	10	9	14	
85.0	19	8	7	6	5	8	5
87.5	7	3	3	2	2	3	
90.0	0	0	0	0	0	0	

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.021	.021	.021	.02	1.00
	1	1.131	.081	.041	.00	1.101	.061	.020	.99	1.071	.041	.000	.97	0.990	.970	.94	0.950	.930	.91	0.920	.900	.88	0.86			
	2	1.030	.960	.900	.84	1.010	.940	.880	.83	0.990	.920	.860	.82	0.880	.840	.80	0.850	.820	.78	0.820	.790	.76	0.74			
	3	0.950	.850	.770	.70	0.930	.830	.760	.70	0.900	.820	.750	.69	0.790	.730	.68	0.760	.710	.67	0.740	.690	.66	0.64			
	4	0.880	.760	.670	.61	0.860	.750	.660	.60	0.830	.730	.660	.60	0.710	.640	.59	0.690	.630	.58	0.660	.620	.57	0.55			
	5	0.810	.680	.590	.52	0.790	.670	.580	.52	0.760	.650	.570	.52	0.630	.560	.51	0.610	.550	.50	0.600	.540	.50	0.48			
	6	0.740	.610	.520	.45	0.720	.600	.510	.45	0.700	.590	.500	.45	0.570	.500	.44	0.550	.490	.44	0.540	.480	.43	0.42			
	7	0.680	.540	.450	.40	0.660	.530	.450	.39	0.650	.530	.440	.39	0.510	.440	.38	0.490	.430	.38	0.480	.420	.38	0.36			
	8	0.630	.490	.410	.35	0.620	.480	.400	.34	0.600	.470	.400	.34	0.460	.390	.34	0.450	.380	.34	0.440	.380	.33	0.32			
	9	0.580	.450	.360	.30	0.570	.440	.360	.30	0.560	.430	.360	.30	0.420	.350	.30	0.410	.340	.30	0.400	.340	.29	0.28			
	10	0.540	.410	.320	.27	0.530	.400	.320	.27	0.520	.390	.320	.27	0.380	.310	.27	0.370	.310	.26	0.370	.300	.26	0.24			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.