



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

Photometric Indoor Test Report

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

Prepared For
LDPI Inc
Charles Caldwell
4404 Anderson Dr.
Eau Claire, WI 54703-0495

Catalog Number
LEINS3-P6-4-2-V1-LGS-RS-5-PB
Project Number
10562966
Test Number
811873
Revised 11/17/2014

Test Date

2014-11-14

Prepared By

A handwritten signature in black ink that reads "Dane Hernandez-Adams".

Dane Hernandez-Adams, Technician

Approved By

A handwritten signature in black ink that reads "Jeffrey M. Lockner".

Jeffrey Lockner, Engineer

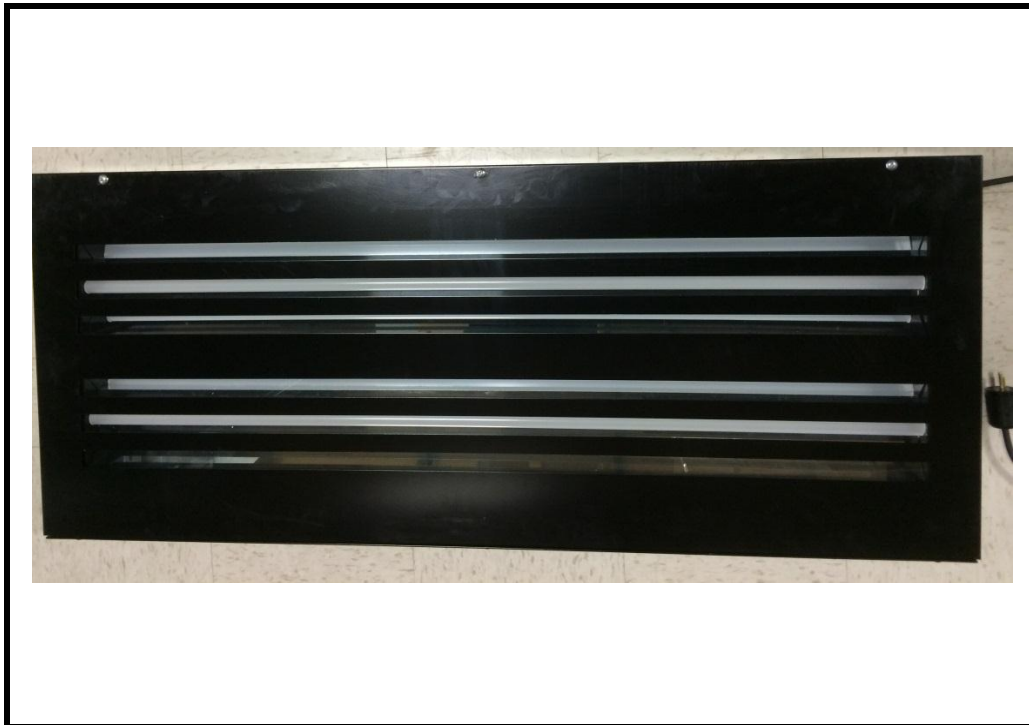
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Black steel housing, specular reflectors, clear glass enclosure
Catalog Number: LEINS3-P6-4-2-V1-LGS-RS-5-PB
Lamp: 176 white LEDs, two rows of 88 LEDs each with frosted lens below each row
Mounting: Surface
Ballast/Driver: One Philips Advance Xitanium XI054C150V054SNT1

Luminaire

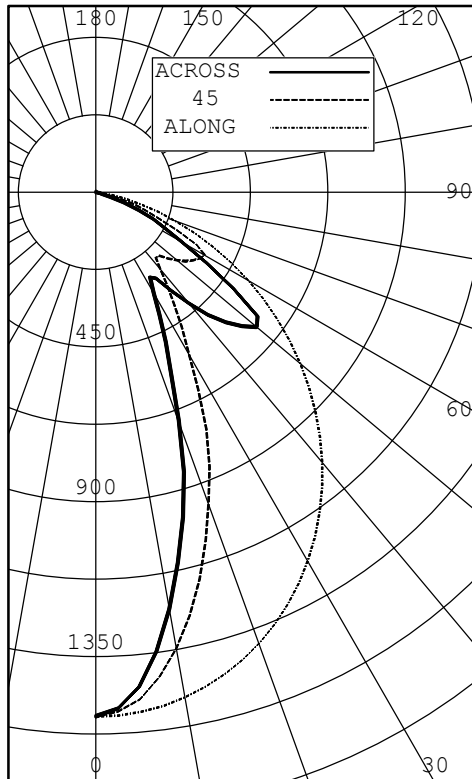


Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.0 VAC
Current:	0.3951 A
Power:	47.02 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	11.6 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1523	1523	1523	1523	1523	
5	1517	1512	1481	1455	1443	139
10	1492	1457	1347	1263	1232	
15	1451	1356	1165	1024	978	330
20	1394	1232	960	782	707	
25	1321	1084	760	531	480	375
30	1235	922	540	376	337	
35	1135	764	398	284	307	346
40	1024	614	293	353	424	
45	904	462	263	453	536	369
50	777	344	309	525	611	
55	645	252	348	522	490	366
60	512	181	366	330	290	
65	378	150	260	200	185	223
70	251	132	152	108	86	
75	138	102	73	24	16	78
80	51	47	10	9	7	
85	7	5	2	2	1	7
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	844	37.80
0-40	1190	53.30
0-60	1925	86.22
0-90	2233	100.00
40-90	1043	46.70
60-90	308	13.78
90-180	0	0.00
0-180	2233	100.00

EFFICACY (LUMENS PER WATT): 47.5

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 45.000 INS
 WIDTH: 12.500 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.6
 SC (ALONG): 1.2, SC (ACROSS): 0.6

ANGLE	ALONG	45	ACROSS
45	3521	1027	2097
55	3097	1676	2362
65	2467	1703	1207
75	1468	776	173
85	213	74	42

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	1523	1523	1523	1523	1523	1523	
2.5	1523	1524	1512	1506	1502	1514	
5.0	1517	1512	1481	1455	1443	1482	139
7.5	1507	1489	1421	1367	1346	1426	
10.0	1492	1457	1347	1263	1232	1357	
12.5	1474	1409	1261	1147	1103	1277	
15.0	1451	1356	1165	1024	978	1190	330
17.5	1424	1297	1062	910	853	1102	
20.0	1394	1232	960	782	707	1006	
22.5	1360	1161	864	642	573	908	
25.0	1321	1084	760	531	480	819	375
27.5	1280	1003	645	449	400	734	
30.0	1235	922	540	376	337	656	
32.5	1186	840	465	319	293	591	
35.0	1135	764	398	284	307	542	346
37.5	1081	690	339	302	363	513	
40.0	1024	614	293	353	424	496	
42.5	965	538	259	403	485	481	
45.0	904	462	263	453	536	474	369
47.5	841	396	287	493	578	471	
50.0	777	344	309	525	611	468	
52.5	711	296	331	550	593	457	
55.0	645	252	348	522	490	422	366
57.5	579	214	360	425	380	369	
60.0	512	181	366	330	290	319	
62.5	445	164	331	253	228	271	
65.0	378	150	260	200	185	223	223
67.5	313	139	197	158	136	179	
70.0	251	132	152	108	86	140	
72.5	192	126	118	62	44	106	
75.0	138	102	73	24	16	69	78
77.5	90	69	32	12	12	41	
80.0	51	47	10	9	7	24	
82.5	23	20	7	4	3	11	
85.0	7	5	2	2	1	3	7
87.5	1	1	1	0	0	1	
90.0	0	0	0	0	0	0	



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	.06	1.021	.021	.02	1.00			
1	1.141	.091	.061	.03	1.111	.071	.041	.01	1.091	.051	.020	.99	1.010	.990	.96	0.970	.950	.93	0.940	.920	.91	0.89				
2	1.050	.990	.930	.88	1.030	.970	.920	.87	1.010	.950	.900	.86	0.910	.870	.84	0.890	.850	.82	0.860	.830	.80	0.78				
3	0.980	.880	.810	.76	0.960	.870	.800	.75	0.940	.860	.800	.75	0.830	.780	.73	0.800	.760	.72	0.780	.740	.71	0.69				
4	0.910	.800	.720	.67	0.890	.790	.720	.66	0.870	.780	.710	.66	0.760	.700	.65	0.730	.680	.64	0.710	.670	.63	0.62				
5	0.850	.730	.650	.59	0.830	.720	.640	.58	0.810	.710	.630	.58	0.690	.620	.58	0.670	.610	.57	0.650	.600	.56	0.55				
6	0.790	.660	.580	.52	0.770	.650	.580	.52	0.750	.640	.570	.52	0.630	.560	.51	0.610	.550	.51	0.600	.540	.50	0.49				
7	0.730	.600	.520	.47	0.710	.590	.520	.46	0.700	.590	.510	.46	0.570	.500	.46	0.560	.500	.45	0.550	.490	.45	0.43				
8	0.680	.550	.480	.42	0.670	.550	.470	.42	0.650	.540	.470	.42	0.530	.460	.41	0.520	.450	.41	0.500	.450	.41	0.39				
9	0.640	.510	.430	.38	0.630	.510	.430	.38	0.610	.500	.430	.38	0.490	.420	.38	0.480	.420	.37	0.470	.410	.37	0.35				
10	0.600	.470	.390	.35	0.590	.470	.390	.35	0.580	.460	.390	.34	0.450	.390	.34	0.440	.380	.34	0.440	.380	.34	0.32				

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.