



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

Catalog Number  
LEINS2-P21-V1-4-P( )  
Project Number  
10221304  
Test Number  
518524

Test Date

2014-03-07

Prepared By

Handwritten signature of Javier Caban in black ink.

Javier Caban, Technician

Approved By

Handwritten signature of Jeffrey M. Lockner in black ink.

Jeffrey Lockner, Engineer

The results contained in this report pertain only to the tested sample.  
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Luminaire Description: Formed black enamel aluminum housing, white enamel aluminum reflector, frosted plastic enclosure  
Catalog Number: LEINS2-P21-V1-4-P(\_)  
Lamp: 144 white LEDs, two boards with 72 LEDs each  
Mounting: Surface  
Ballast/Driver: One Everline D255CQ42UNVA-A

Luminaire

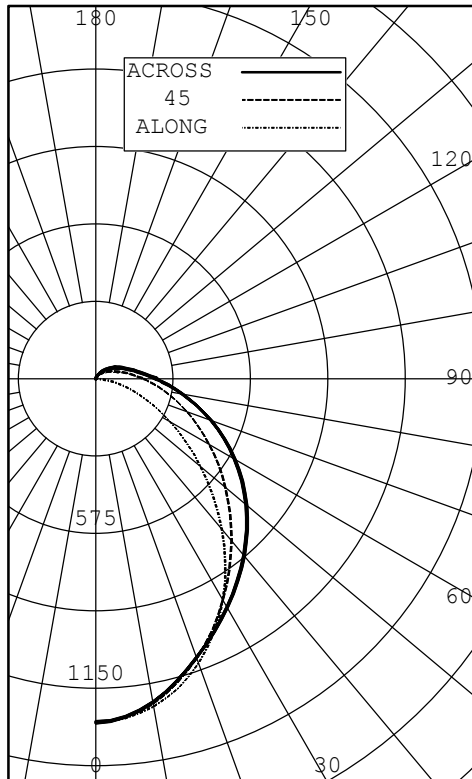


Test Conditions

Test Temperature:	24.8 °C
Voltage:	119.9 VAC
Current:	0.3611 A
Power:	43.03 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	9.02 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1276	1276	1276	1276	1276	
5	1267	1266	1263	1258	1262	121
15	1190	1181	1170	1161	1163	329
25	1039	1031	1027	1030	1039	474
35	839	840	865	899	918	544
45	617	641	705	767	794	543
55	410	458	556	634	663	488
65	240	305	421	501	526	399
75	115	195	307	374	390	299
85	29	118	215	263	272	204
90	0	90	177	218	225	
95	0	69	146	181	187	135
105	0	40	99	128	134	89
115	0	23	66	91	98	57
125	0	12	44	64	70	35
135	0	4	26	42	47	19
145	0	0	12	24	28	8
155	0	0	3	9	12	2
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	924	24.67
0-40	1468	39.18
0-60	2499	66.71
0-90	3402	90.80
40-90	1934	51.62
60-90	902	24.08
90-180	345	9.20
0-180	3746	100.00

EFFICACY (LUMENS PER WATT): 87.1

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 44.880 INS  
 WIDTH: 4.060 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.1  
 SC: 1.1

ANGLE	ALONG	45	ACROSS
45	7420	5932	5933
55	6075	5104	5254
65	4829	4401	4582
75	3764	3846	3903
85	2786	3516	3310

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1276	1276	1276	1276	1276	1276	
5	1267	1266	1263	1258	1262	1263	121
10	1237	1233	1227	1218	1220	1227	
15	1190	1181	1170	1161	1163	1172	329
20	1122	1113	1103	1096	1100	1105	
25	1039	1031	1027	1030	1039	1032	474
30	945	939	946	964	978	953	
35	839	840	865	899	918	870	544
40	728	739	784	833	857	787	
45	617	641	705	767	794	704	543
50	510	546	628	700	730	624	
55	410	458	556	634	663	546	488
60	319	378	486	567	595	472	
65	240	305	421	501	526	403	399
70	172	246	361	437	458	340	
75	115	195	307	374	390	282	299
80	68	152	258	315	327	231	
85	29	118	215	263	272	186	204
90	0	90	177	218	225	149	
95	0	69	146	181	187	122	135
100	0	53	120	152	158	101	
105	0	40	99	128	134	83	89
110	0	31	79	108	114	69	
115	0	23	66	91	98	57	57
120	0	17	54	77	83	47	
125	0	12	44	64	70	39	35
130	0	8	34	52	58	31	
135	0	4	26	42	47	24	19
140	0	1	19	33	37	18	
145	0	0	12	24	28	13	8
150	0	0	7	16	19	8	
155	0	0	3	9	12	4	2
160	0	0	0	3	5	1	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	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	1.211	1.211	1.211	1.211	1.171	1.171	1.171	1.171	1.131	1.131	1.131	1.131	1.061	1.061	1.061	1.001	1.001	1.001	0.940	0.940	0.940	0.91				
1	1.091	1.040	0.990	0.94	1.061	1.010	0.960	0.92	1.020	0.980	0.930	0.89	0.910	0.880	0.85	0.860	0.830	0.81	0.810	0.790	0.77	0.74				
2	1.000	0.910	0.840	0.77	0.960	0.880	0.820	0.76	0.930	0.860	0.790	0.74	0.800	0.750	0.71	0.760	0.720	0.68	0.720	0.680	0.65	0.62				
3	0.910	0.800	0.710	0.65	0.880	0.780	0.700	0.63	0.850	0.760	0.680	0.62	0.710	0.650	0.60	0.670	0.620	0.58	0.640	0.590	0.56	0.53				
4	0.840	0.720	0.620	0.56	0.810	0.700	0.610	0.55	0.790	0.680	0.600	0.54	0.640	0.570	0.52	0.610	0.550	0.50	0.580	0.530	0.49	0.46				
5	0.780	0.640	0.550	0.48	0.750	0.620	0.540	0.47	0.720	0.610	0.530	0.47	0.580	0.510	0.45	0.550	0.490	0.44	0.520	0.470	0.43	0.40				
6	0.720	0.580	0.480	0.42	0.690	0.560	0.470	0.41	0.670	0.550	0.460	0.41	0.520	0.450	0.40	0.490	0.430	0.38	0.470	0.420	0.37	0.35				
7	0.660	0.520	0.430	0.37	0.640	0.500	0.420	0.36	0.620	0.490	0.410	0.35	0.470	0.400	0.35	0.450	0.380	0.34	0.430	0.370	0.33	0.31				
8	0.610	0.470	0.380	0.32	0.590	0.460	0.380	0.32	0.570	0.450	0.370	0.31	0.430	0.360	0.31	0.410	0.350	0.30	0.390	0.330	0.29	0.27				
9	0.570	0.430	0.340	0.28	0.550	0.420	0.340	0.28	0.530	0.410	0.330	0.28	0.390	0.320	0.27	0.370	0.310	0.27	0.360	0.300	0.26	0.24				
10	0.530	0.390	0.310	0.25	0.510	0.380	0.300	0.25	0.500	0.370	0.300	0.25	0.360	0.290	0.24	0.340	0.280	0.24	0.330	0.270	0.23	0.21				

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.