



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-P13-V1-4-P()
Project Number
10221304
Test Number
518520

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-P13-V1-4-P(_)
Lamp: 144 white LEDs, two boards with 72 LEDs each
Mounting: Surface
Ballast/Driver: One Everline D150CQ25UNVA-A

Luminaire

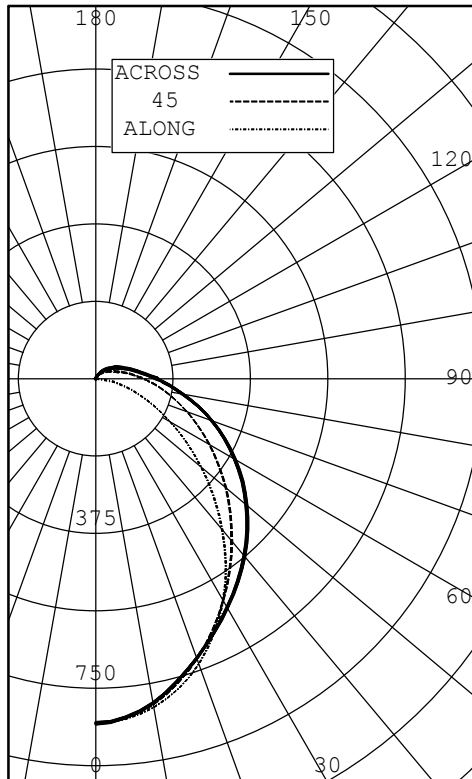


Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.2171 A
Power:	25.85 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	9.55 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	835	835	835	835	835	
5	828	828	826	822	825	79
15	778	773	765	758	760	215
25	679	675	672	673	679	310
35	549	550	566	586	600	355
45	404	420	461	501	519	355
55	268	299	363	414	434	319
65	157	199	275	328	345	261
75	75	127	201	245	257	196
85	19	77	141	173	179	134
90	0	59	117	144	148	
95	0	45	96	119	123	88
105	0	26	65	84	88	58
115	0	16	44	60	64	38
125	0	9	29	42	46	23
135	0	3	18	28	31	13
145	0	0	9	17	19	6
155	0	0	3	7	8	2
165	0	0	0	0	1	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	604	24.63
0-40	960	39.12
0-60	1634	66.60
0-90	2225	90.70
40-90	1266	51.58
60-90	591	24.10
90-180	228	9.30
0-180	2453	100.00

EFFICACY (LUMENS PER WATT): 94.7

*** 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	4856	3875	3875
55	3979	3328	3437
65	3155	2875	3001
75	2468	2520	2567
85	1810	2315	2181

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	835	835	835	835	835	835	
5	828	828	826	822	825	826	79
10	809	807	802	796	798	802	
15	778	773	765	758	760	766	215
20	734	728	721	716	719	723	
25	679	675	672	673	679	675	310
30	618	615	619	629	639	623	
35	549	550	566	586	600	569	355
40	476	484	513	544	560	515	
45	404	420	461	501	519	460	355
50	334	358	411	457	476	408	
55	268	299	363	414	434	357	319
60	209	248	318	371	390	309	
65	157	199	275	328	345	263	261
70	112	160	236	286	300	222	
75	75	127	201	245	257	185	196
80	44	99	169	207	215	152	
85	19	77	141	173	179	122	134
90	0	59	117	144	148	98	
95	0	45	96	119	123	80	88
100	0	34	79	100	104	66	
105	0	26	65	84	88	55	58
110	0	20	52	71	75	45	
115	0	16	44	60	64	38	38
120	0	12	36	51	55	31	
125	0	9	29	42	46	26	23
130	0	6	23	35	39	21	
135	0	3	18	28	31	16	13
140	0	2	13	22	25	12	
145	0	0	9	17	19	9	6
150	0	0	5	11	13	6	
155	0	0	3	7	8	3	2
160	0	0	0	3	4	1	
165	0	0	0	0	1	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	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	1.211	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	0.990	0.990	0.990	0.940	0.940	0.940	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	0.74	0.74	0.74
2	1.000	0.910	0.840	0.77	0.960	0.880	0.810	0.75	0.930	0.850	0.790	0.74	0.800	0.750	0.71	0.760	0.720	0.68	0.720	0.680	0.65	0.62	0.62	0.62	0.62
3	0.910	0.800	0.710	0.64	0.880	0.780	0.700	0.63	0.850	0.750	0.680	0.62	0.710	0.650	0.60	0.670	0.620	0.58	0.640	0.590	0.56	0.53	0.53	0.53	0.53
4	0.840	0.720	0.620	0.56	0.810	0.700	0.610	0.55	0.780	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	0.46	0.46	0.46
5	0.780	0.640	0.550	0.48	0.750	0.620	0.540	0.47	0.720	0.610	0.520	0.46	0.580	0.500	0.45	0.550	0.490	0.44	0.520	0.470	0.42	0.40	0.40	0.40	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	0.39	0.490	0.430	0.38	0.470	0.420	0.37	0.35	0.35	0.35	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	0.440	0.380	0.33	0.430	0.370	0.33	0.31	0.31	0.31	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	0.340	0.30	0.390	0.330	0.29	0.27	0.27	0.27	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	0.24	0.24	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	0.21	0.21	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.