



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
LE300-P8-V1-F1-W
Project Number
10230735
Test Number
514127

Test Date

2014-04-23

Prepared By

Handwritten signature of Derek Smarr in black ink.

Derek Smarr, 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: Cast aluminum housing, clear glass enclosure
Catalog Number: LE300-P8-V1-F1-W
Lamp: 24 white LEDs with clear plastic optics below each
Mounting: Pendant
Ballast/Driver: One Inventronics EUC-096S105DT

Luminaire



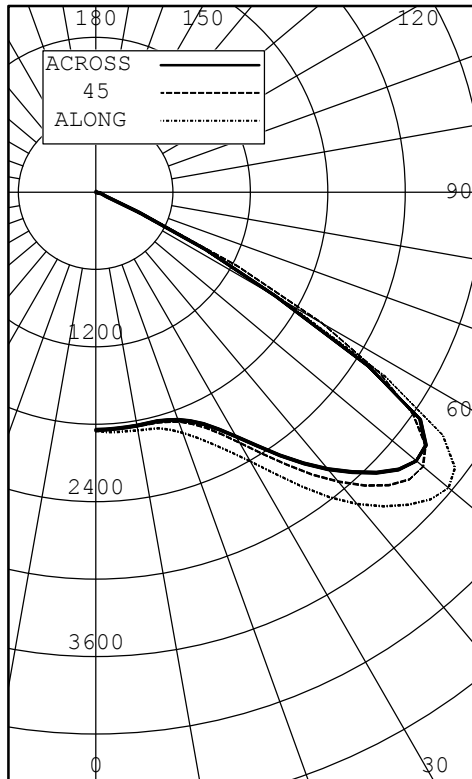
Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.6814 A
Power:	81.33 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	3.58 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1846	1846	1846	1846	1846	
5	1867	1850	1841	1832	1841	179
10	1877	1857	1844	1830	1841	
15	1899	1871	1851	1831	1842	529
20	1989	1939	1896	1868	1881	
25	2157	2093	2016	1975	1988	958
30	2417	2354	2251	2183	2194	
35	2787	2703	2579	2490	2492	1646
40	3160	3070	2933	2825	2805	
45	3430	3357	3216	3112	3078	2486
50	3569	3469	3310	3257	3245	
55	3283	3164	3003	3021	3067	2591
60	1690	1861	2025	1808	1608	
65	277	312	432	383	376	585
70	66	70	65	68	65	
75	38	54	46	51	49	47
80	10	14	15	16	17	
85	3	4	5	6	6	6
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1665	18.45
0-40	3311	36.69
0-60	8388	92.94
0-90	9025	100.00
40-90	5714	63.31
60-90	637	7.06
90-180	0	0.00
0-180	9025	100.00

EFFICACY (LUMENS PER WATT): 111.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 8.500 INS
 WIDTH: 8.500 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 2.3
 SC (ALONG): 2.4, SC (ACROSS): 2.3

ANGLE	ALONG	45	ACROSS
45	104059	97930	93726
55	122806	112758	115154
65	14063	22024	19169
75	3158	3825	4039
85	713	1135	1494

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	1846	1846	1846	1846	1846	1846	
2.5	1864	1848	1842	1834	1845	1844	
5.0	1867	1850	1841	1832	1841	1844	179
7.5	1872	1852	1841	1830	1840	1845	
10.0	1877	1857	1844	1830	1841	1847	
12.5	1883	1859	1845	1828	1839	1848	
15.0	1899	1871	1851	1831	1842	1856	529
17.5	1935	1896	1867	1843	1855	1875	
20.0	1989	1939	1896	1868	1881	1910	
22.5	2064	2004	1944	1910	1924	1963	
25.0	2157	2093	2016	1975	1988	2039	958
27.5	2275	2210	2118	2065	2078	2142	
30.0	2417	2354	2251	2183	2194	2273	
32.5	2591	2521	2406	2326	2334	2429	
35.0	2787	2703	2579	2490	2492	2603	1646
37.5	2984	2891	2760	2662	2654	2783	
40.0	3160	3070	2933	2825	2805	2953	
42.5	3307	3228	3087	2976	2945	3104	
45.0	3430	3357	3216	3112	3078	3234	2486
47.5	3525	3445	3299	3216	3186	3329	
50.0	3569	3469	3310	3257	3245	3361	
52.5	3509	3389	3223	3206	3225	3296	
55.0	3283	3164	3003	3021	3067	3091	2591
57.5	2658	2736	2615	2652	2504	2646	
60.0	1690	1861	2025	1808	1608	1836	
62.5	888	927	1239	946	958	1009	
65.0	277	312	432	383	376	364	585
67.5	80	84	95	99	91	91	
70.0	66	70	65	68	65	67	
72.5	50	58	49	55	53	53	
75.0	38	54	46	51	49	49	47
77.5	18	37	34	38	35	34	
80.0	10	14	15	16	17	15	
82.5	6	9	9	10	9	9	
85.0	3	4	5	6	6	5	6
87.5	1	1	0	2	3	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	.061	.06	1.021	.021	.021	.02	1.00
1	1.131	.091	.051	.02	1.111	.071	.031	.00	1.081	.051	.010	.98	1.000	.980	.95	0.960	.940	.92	0.930	.910	.90	0.88			
2	1.040	.970	.910	.86	1.020	.950	.900	.85	1.000	.940	.880	.84	0.900	.860	.82	0.870	.830	.80	0.840	.810	.78	0.76			
3	0.960	.860	.780	.72	0.930	.840	.770	.71	0.910	.830	.760	.71	0.800	.740	.69	0.770	.720	.68	0.750	.710	.67	0.65			
4	0.880	.760	.670	.61	0.860	.750	.670	.60	0.840	.730	.660	.60	0.710	.640	.59	0.690	.630	.58	0.670	.620	.58	0.56			
5	0.800	.670	.580	.51	0.780	.660	.570	.51	0.760	.650	.560	.51	0.630	.550	.50	0.610	.540	.50	0.590	.530	.49	0.47			
6	0.730	.580	.490	.43	0.710	.570	.480	.42	0.690	.560	.480	.42	0.540	.470	.41	0.530	.460	.41	0.510	.450	.41	0.39			
7	0.650	.500	.410	.35	0.630	.490	.400	.34	0.620	.490	.400	.34	0.470	.390	.34	0.450	.380	.33	0.440	.380	.33	0.31			
8	0.590	.440	.350	.29	0.580	.430	.350	.29	0.560	.430	.340	.28	0.410	.340	.28	0.400	.330	.28	0.390	.330	.28	0.26			
9	0.540	.390	.300	.24	0.530	.390	.300	.24	0.510	.380	.290	.24	0.360	.290	.23	0.350	.280	.23	0.340	.280	.23	0.21			
10	0.490	.350	.250	.20	0.480	.340	.250	.20	0.470	.330	.250	.20	0.320	.250	.20	0.310	.240	.19	0.300	.240	.19	0.17			

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.