



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-P5-V1-F1-W
Project Number
10230735
Test Number
514128

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-P5-V1-F1-W
Lamp: 24 white LEDs with clear plastic optics below each
Mounting: Pendant
Ballast/Driver: One Inventronics EUC-075S070DT

Luminaire

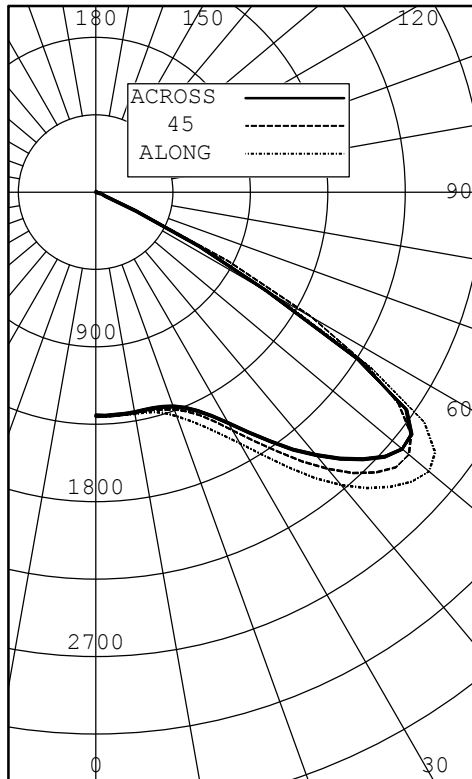


Test Conditions

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.4556 A
Power:	54.18 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	6.79 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1301	1301	1301	1301	1301	
5	1305	1301	1306	1295	1301	126
10	1311	1306	1308	1294	1300	
15	1324	1315	1313	1294	1300	373
20	1388	1363	1345	1321	1328	
25	1507	1474	1433	1396	1405	677
30	1692	1662	1605	1545	1554	
35	1954	1912	1842	1769	1771	1168
40	2227	2178	2102	2012	1999	
45	2424	2384	2307	2221	2199	1772
50	2528	2467	2375	2329	2326	
55	2331	2248	2149	2162	2204	1849
60	1214	1303	1442	1293	1144	
65	201	220	289	260	257	412
70	47	50	47	50	47	
75	28	40	34	38	35	34
80	8	11	11	12	12	
85	3	3	4	5	5	5
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1176	18.32
0-40	2344	36.53
0-60	5965	92.97
0-90	6416	100.00
40-90	4072	63.47
60-90	451	7.03
90-180	0	0.00
0-180	6416	100.00

EFFICACY (LUMENS PER WATT): 118.4

*** 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	73547	70271	66963
55	87174	80692	82739
65	10213	14706	13095
75	2354	2821	2945
85	615	925	1210

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	1301	1301	1301	1301	1301	1301	
2.5	1302	1300	1306	1296	1303	1301	
5.0	1305	1301	1306	1295	1301	1301	126
7.5	1308	1303	1306	1294	1300	1302	
10.0	1311	1306	1308	1294	1300	1303	
12.5	1314	1307	1308	1292	1298	1304	
15.0	1324	1315	1313	1294	1300	1309	373
17.5	1349	1334	1324	1302	1310	1322	
20.0	1388	1363	1345	1321	1328	1347	
22.5	1440	1409	1380	1351	1359	1385	
25.0	1507	1474	1433	1396	1405	1440	677
27.5	1591	1559	1508	1461	1470	1515	
30.0	1692	1662	1605	1545	1554	1609	
32.5	1814	1781	1717	1650	1657	1721	
35.0	1954	1912	1842	1769	1771	1846	1168
37.5	2099	2048	1976	1893	1889	1978	
40.0	2227	2178	2102	2012	1999	2101	
42.5	2334	2292	2215	2121	2102	2212	
45.0	2424	2384	2307	2221	2199	2306	1772
47.5	2493	2448	2368	2297	2279	2375	
50.0	2528	2467	2375	2329	2326	2399	
52.5	2487	2409	2310	2294	2314	2353	
55.0	2331	2248	2149	2162	2204	2207	1849
57.5	1894	1938	1869	1898	1803	1888	
60.0	1214	1303	1442	1293	1144	1304	
62.5	639	657	869	670	677	713	
65.0	201	220	289	260	257	249	412
67.5	57	61	67	66	62	63	
70.0	47	50	47	50	47	49	
72.5	36	41	36	40	38	39	
75.0	28	40	34	38	35	36	34
77.5	13	28	26	29	27	26	
80.0	8	11	11	12	12	11	
82.5	5	7	7	8	7	7	
85.0	3	3	4	5	5	4	5
87.5	1	1	1	2	3	1	
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	.11	1.061	.061	.06	1.021	.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	.930	.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	0.660	.620	.58	0.56			
5	0.800	.670	.580	.51	0.780	.660	.570	.51	0.760	.650	.560	.51	0.620	.550	.50	0.610	.540	.49	0.590	.530	.49	0.47			
6	0.730	.580	.490	.43	0.710	.570	.480	.42	0.680	.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	.480	.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	.28	0.560	.430	.340	.28	0.410	.340	.28	0.400	.330	.28	0.390	.320	.28	0.26			
9	0.540	.390	.300	.24	0.520	.380	.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.