



7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

Relevant Standards
IES LM-41-1998 (Withdrawn)
IES LM-9-2009
ANSI C82.77-2002

Prepared For
LDPI Inc
Scott Schlewitz
4404 Anderson Dr.
Eau Claire, WI 54703-0495

Catalog Number
INS3-T8-3L-4-V1-GS-SR
Project Number
10264579
Test Number
552641

Test Date

2014-03-26

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

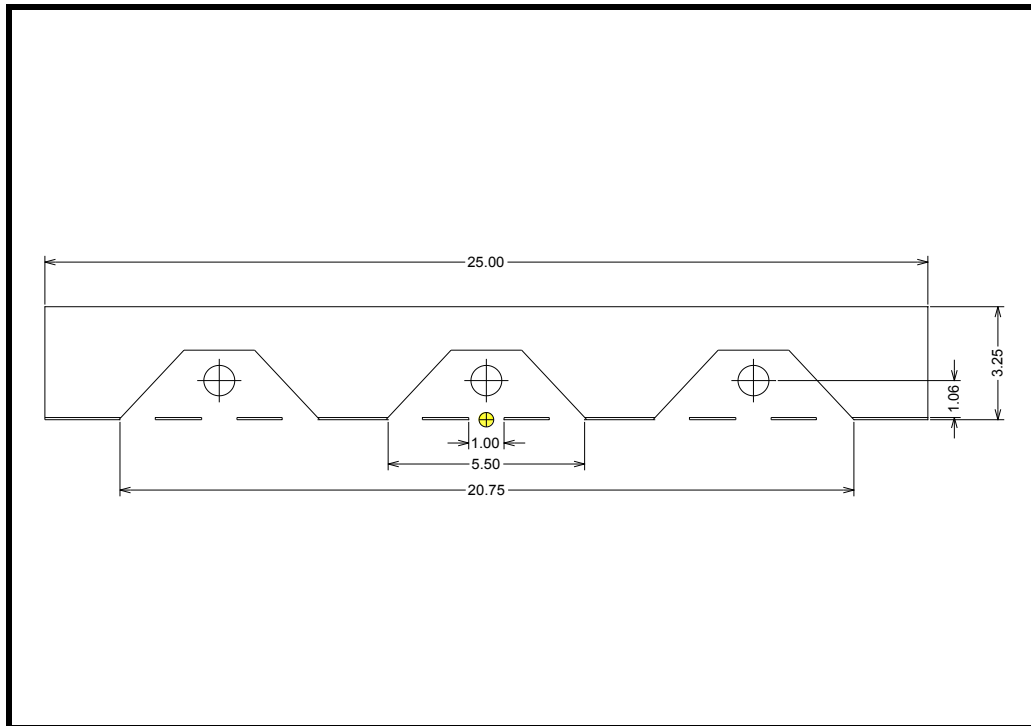
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel steel housing, aluminum specular reflectors, clear glass and striped steel enclosure
Catalog Number: INS3-T8-3L-4-V1-GS-SR
Lamp: Three 32 watt T8 linear fluorescent lamps rated at 2850 lumens each
Lamp Catalog Number: Osram Sylvania FO32/850/XP/ECO3
Mounting: Surface
Ballast/Driver: One Philips Advance ICN-3P32-N

Luminaire



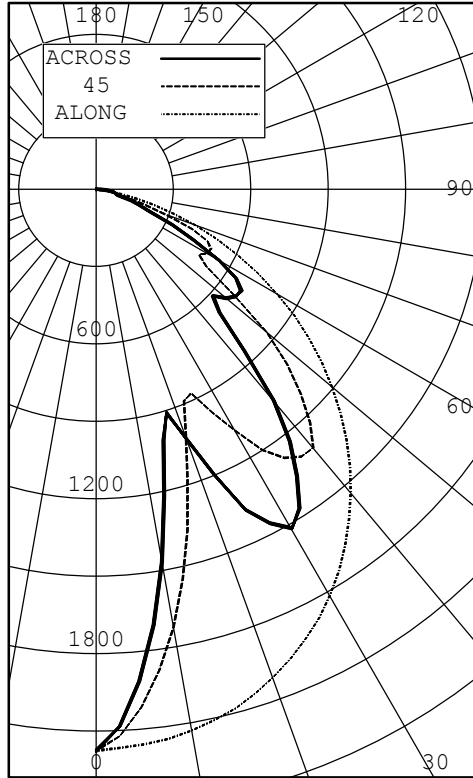
Test Conditions

Test Temperature: 25.2 °C
Voltage: 120.0 VAC
Current: 0.6707 A
Power: 79.10 W
Power Factor: 0.983
Frequency: 60 Hz
Current THD: 13.1 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	2176	2176	2176	2176	2176	
5	2161	2114	2017	1946	1915	187
10	2132	1974	1726	1538	1469	
15	2084	1789	1366	1087	1008	407
20	2012	1567	1017	931	1033	
25	1922	1319	874	1238	1372	591
30	1816	1058	1082	1444	1520	
35	1683	831	1272	1407	1357	777
40	1536	695	1309	1170	1072	
45	1373	757	1122	802	676	723
50	1194	828	864	584	660	
55	1009	827	523	643	688	636
60	809	697	499	588	551	
65	609	500	477	373	325	439
70	409	255	294	183	174	
75	229	221	128	102	85	167
80	87	97	59	70	74	
85	14	30	42	41	39	39
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1185	13.86	29.88
0-40	1962	22.95	49.48
0-60	3321	38.84	83.74
0-90	3965	46.38	100.00
40-90	2003	23.43	50.52
60-90	645	7.54	16.26
90-180	0	0.00	0.00
0-180	3965	46.38	100.00

** EFFICIENCY: 46.4% **

LUMINOUS LENGTH: 47.750 INS
 WIDTH: 20.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.5
 SC (ALONG): 1.2, SC (ACROSS): 0.5

ANGLE	ALONG	45	ACROSS
45	3151	2584	1557
55	2855	1485	1953
65	2339	1836	1254
75	1434	803	537
85	263	784	737

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	2176	2176	2176	2176	2176	2176	
2.5	2168	2162	2122	2095	2084	2126	
5.0	2161	2114	2017	1946	1915	2029	187
7.5	2149	2049	1880	1755	1704	1903	
10.0	2132	1974	1726	1538	1469	1760	
12.5	2110	1884	1549	1304	1218	1600	
15.0	2084	1789	1366	1087	1008	1447	407
17.5	2050	1684	1176	924	909	1316	
20.0	2012	1567	1017	931	1033	1259	
22.5	1969	1444	888	1081	1199	1249	
25.0	1922	1319	874	1238	1372	1269	591
27.5	1872	1190	976	1376	1461	1302	
30.0	1816	1058	1082	1444	1520	1313	
32.5	1752	938	1200	1481	1468	1307	
35.0	1683	831	1272	1407	1357	1257	777
37.5	1610	735	1307	1299	1232	1191	
40.0	1536	695	1309	1170	1072	1120	
42.5	1458	717	1228	1012	851	1028	
45.0	1373	757	1122	802	676	926	723
47.5	1284	788	1003	636	613	844	
50.0	1194	828	864	584	660	801	
52.5	1103	841	675	626	683	759	
55.0	1009	827	523	643	688	710	636
57.5	911	789	473	642	644	670	
60.0	809	697	499	588	551	616	
62.5	709	602	502	489	426	540	
65.0	609	500	477	373	325	454	439
67.5	508	372	403	269	222	353	
70.0	409	255	294	183	174	256	
72.5	316	234	200	151	142	204	
75.0	229	221	128	102	85	152	167
77.5	151	169	97	72	75	113	
80.0	87	97	59	70	74	76	
82.5	41	51	53	62	63	55	
85.0	14	30	42	41	39	35	39
87.5	3	19	16	16	15	15	
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	0.560	0.560	0.560	0.56	0.550	0.550	0.550	0.55	0.540	0.540	0.540	0.54	0.520	0.520	0.52	0.490	0.490	0.49	0.470	0.470	0.47	0.46				
1	0.520	0.500	0.480	0.47	0.510	0.490	0.480	0.46	0.500	0.480	0.470	0.45	0.460	0.450	0.44	0.450	0.440	0.43	0.430	0.420	0.41	0.40				
2	0.480	0.450	0.420	0.39	0.470	0.440	0.410	0.39	0.460	0.430	0.400	0.38	0.410	0.390	0.37	0.400	0.380	0.37	0.390	0.370	0.36	0.35				
3	0.440	0.400	0.360	0.33	0.430	0.390	0.360	0.33	0.420	0.380	0.350	0.33	0.370	0.340	0.32	0.360	0.340	0.32	0.350	0.330	0.31	0.30				
4	0.410	0.360	0.320	0.29	0.400	0.350	0.310	0.28	0.390	0.340	0.310	0.28	0.330	0.300	0.28	0.320	0.300	0.28	0.310	0.290	0.27	0.26				
5	0.380	0.320	0.280	0.24	0.370	0.310	0.270	0.24	0.360	0.310	0.270	0.24	0.300	0.260	0.24	0.290	0.260	0.24	0.280	0.250	0.23	0.22				
6	0.350	0.280	0.240	0.21	0.340	0.280	0.240	0.21	0.330	0.270	0.240	0.21	0.270	0.230	0.21	0.260	0.230	0.21	0.250	0.230	0.21	0.20				
7	0.320	0.260	0.210	0.19	0.310	0.250	0.210	0.19	0.300	0.250	0.210	0.18	0.240	0.210	0.18	0.230	0.200	0.18	0.230	0.200	0.18	0.17				
8	0.290	0.230	0.190	0.16	0.290	0.230	0.190	0.16	0.280	0.220	0.190	0.16	0.220	0.180	0.16	0.210	0.180	0.16	0.210	0.180	0.16	0.15				
9	0.270	0.210	0.170	0.14	0.270	0.200	0.170	0.14	0.260	0.200	0.170	0.14	0.200	0.160	0.14	0.190	0.160	0.14	0.190	0.160	0.14	0.13				
10	0.250	0.190	0.150	0.13	0.250	0.190	0.150	0.12	0.240	0.180	0.150	0.12	0.180	0.150	0.12	0.170	0.140	0.12	0.170	0.140	0.12	0.11				

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.