



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IES LM-41-1998 (Withdrawn)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-GC-SR
Project Number
10264579
Test Number
542637

Test Date
2014-03-26

Prepared By

A handwritten signature in black ink, appearing to read 'Javier Caban'.

Javier Caban, Technician

Approved By

A handwritten signature in black ink, appearing to read 'Jeffrey M. Lockner'.

Jeffrey Lockner, Engineer

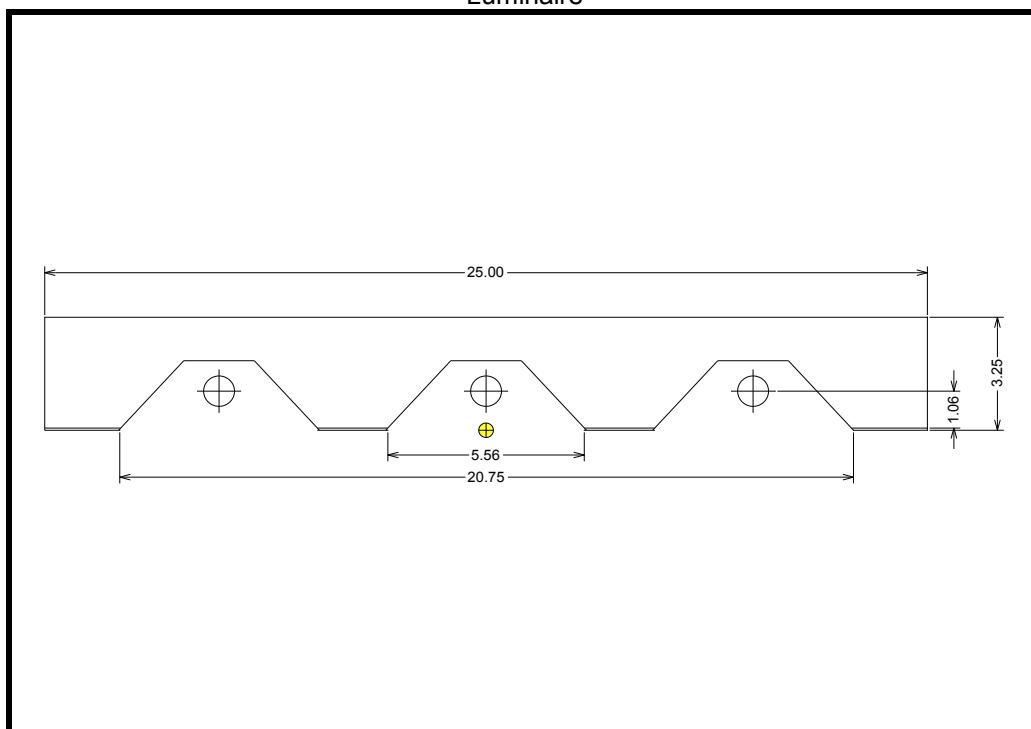
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel steel housing, aluminum specular reflectors, clear glass and steel enclosure
Catalog Number: INS3-T8-3L-4-V1-GC-SR
Lamp: Three 32 watt 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

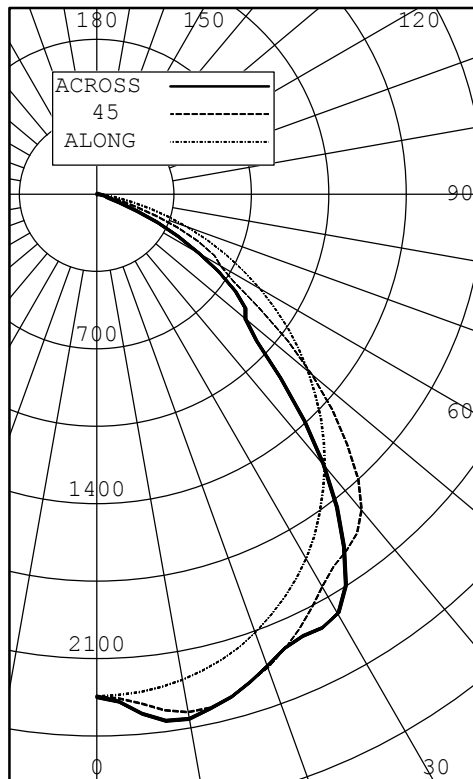


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.7017 A
Power:	82.71 W
Power Factor:	0.982
Frequency:	60 Hz
Current THD:	11.3 %



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT

ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS
0	2272	2272	2272	2272	2272	
5	2260	2283	2313	2347	2359	226
10	2230	2295	2378	2406	2411	
15	2180	2301	2353	2353	2354	652
20	2106	2262	2275	2268	2267	
25	2010	2174	2168	2174	2204	995
30	1898	2048	2044	2159	2187	
35	1759	1904	1967	2012	1947	1200
40	1603	1732	1863	1696	1595	
45	1432	1548	1602	1313	1174	1107
50	1247	1368	1272	920	877	
55	1054	1218	897	792	766	845
60	850	998	649	595	534	
65	643	718	507	362	305	505
70	438	416	289	152	107	
75	250	255	101	49	46	156
80	101	93	32	32	33	
85	17	14	14	15	16	21
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1873	21.91	32.82
0-40	3073	35.94	53.84
0-60	5025	58.78	88.05
0-90	5708	66.76	100.00
40-90	2634	30.81	46.16
60-90	682	7.98	11.95
90-180	0	0.00	0.00
0-180	5708	66.76	100.00

** EFFICIENCY: 66.8% **

LUMINOUS LENGTH: 47.750 INS
WIDTH: 20.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.4
SC (ALONG): 1.2, SC (ACROSS): 1.4

ANGLE	ALONG	45	ACROSS
45	3168	3557	2608
55	2875	2456	2096
65	2381	1884	1132
75	1511	608	276
85	306	259	279

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	2272	2272	2272	2272	2272	2272	
2.5	2268	2279	2283	2293	2298	2284	
5.0	2260	2283	2313	2347	2359	2313	226
7.5	2248	2290	2354	2393	2403	2341	
10.0	2230	2295	2378	2406	2411	2350	
12.5	2207	2301	2378	2384	2382	2339	
15.0	2180	2301	2353	2353	2354	2319	652
17.5	2147	2290	2314	2315	2313	2287	
20.0	2106	2262	2275	2268	2267	2248	
22.5	2060	2224	2224	2216	2222	2201	
25.0	2010	2174	2168	2174	2204	2156	995
27.5	1957	2113	2107	2162	2211	2116	
30.0	1898	2048	2044	2159	2187	2073	
32.5	1831	1980	1995	2115	2096	2013	
35.0	1759	1904	1967	2012	1947	1934	1200
37.5	1682	1820	1934	1861	1784	1837	
40.0	1603	1732	1863	1696	1595	1723	
42.5	1520	1643	1750	1513	1393	1590	
45.0	1432	1548	1602	1313	1174	1442	1107
47.5	1340	1454	1446	1103	982	1291	
50.0	1247	1368	1272	920	877	1155	
52.5	1152	1298	1089	824	847	1052	
55.0	1054	1218	897	792	766	954	845
57.5	953	1123	733	706	654	841	
60.0	850	998	649	595	534	733	
62.5	746	870	603	477	417	633	
65.0	643	718	507	362	305	515	505
67.5	540	564	397	252	197	395	
70.0	438	416	289	152	107	282	
72.5	340	315	189	78	59	195	
75.0	250	255	101	49	46	138	156
77.5	169	172	48	39	39	91	
80.0	101	93	32	32	33	56	
82.5	50	35	23	25	25	30	
85.0	17	14	14	15	16	15	21
87.5	2	5	6	7	7	6	
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	0.81	0.81	0.81	0.81	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.74	0.74	0.74	0.71	0.71	0.71	0.68	0.68	0.68	0.67			
1	0.76	0.73	0.71	0.68	0.74	0.72	0.69	0.67	0.72	0.70	0.68	0.66	0.67	0.66	0.64	0.65	0.63	0.62	0.62	0.61	0.60	0.59			
2	0.70	0.66	0.62	0.58	0.69	0.64	0.61	0.57	0.67	0.63	0.60	0.57	0.61	0.58	0.55	0.59	0.56	0.54	0.57	0.55	0.53	0.52			
3	0.65	0.59	0.54	0.50	0.63	0.58	0.53	0.49	0.62	0.57	0.52	0.49	0.55	0.51	0.48	0.53	0.50	0.47	0.51	0.49	0.47	0.45			
4	0.60	0.53	0.47	0.43	0.59	0.52	0.47	0.43	0.57	0.51	0.46	0.43	0.49	0.45	0.42	0.48	0.44	0.42	0.46	0.43	0.41	0.40			
5	0.55	0.47	0.41	0.37	0.54	0.46	0.41	0.37	0.53	0.46	0.40	0.37	0.44	0.40	0.36	0.43	0.39	0.36	0.42	0.38	0.36	0.34			
6	0.51	0.42	0.37	0.33	0.50	0.42	0.36	0.32	0.49	0.41	0.36	0.32	0.40	0.35	0.32	0.39	0.35	0.32	0.38	0.34	0.31	0.30			
7	0.47	0.38	0.33	0.29	0.46	0.38	0.32	0.29	0.45	0.37	0.32	0.28	0.36	0.31	0.28	0.35	0.31	0.28	0.34	0.31	0.28	0.26			
8	0.43	0.34	0.29	0.25	0.42	0.34	0.29	0.25	0.41	0.33	0.28	0.25	0.32	0.28	0.25	0.32	0.27	0.24	0.31	0.27	0.24	0.23			
9	0.40	0.31	0.25	0.21	0.39	0.31	0.25	0.21	0.38	0.30	0.25	0.21	0.29	0.25	0.21	0.29	0.24	0.21	0.28	0.24	0.21	0.20			
10	0.37	0.28	0.22	0.19	0.36	0.28	0.22	0.19	0.36	0.27	0.22	0.19	0.27	0.22	0.19	0.26	0.22	0.19	0.26	0.22	0.19	0.18			

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.