



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Brightline
Bldg 7
580 Mayer St
Bridgeville, PA 15017
United States

Catalog Number
LST6XX-FW-XX-XX
Order Number
11969789
Test Number
11969789.04

Test Date

2017-10-06

Prepared By

Kevin Rodriguez, Technician

Approved By

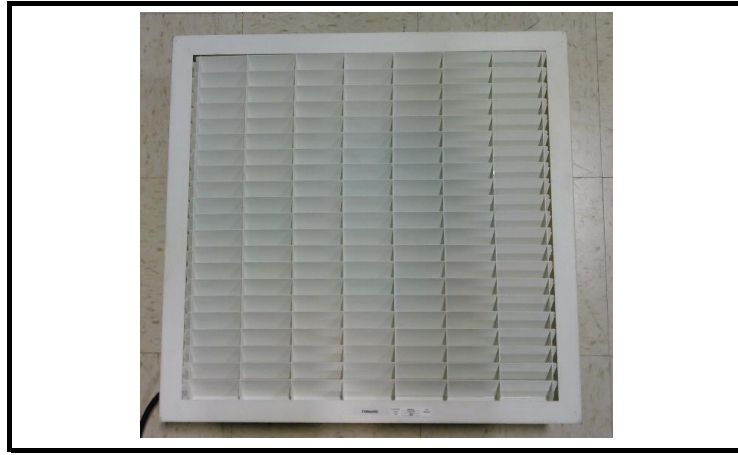
Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: White formed steel and aluminum housing, frosted plastic lens enclosure
Lamp: 288 white LEDs
Mounting: Recessed
Ballast/Driver: One Philips XI075C200V054BPT1 driver

Luminaire



Luminaire Characteristics

Luminous Length: 21.25 in.
Luminous Width: 21.25 in.

Summary of Results

Total Luminaire Output: 3338 Lumens
Luminaire Efficacy: 44 lm/w
Maximum Candela: 2186 Candela

Test Conditions

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.6335 A
Power: 75.90 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.66 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

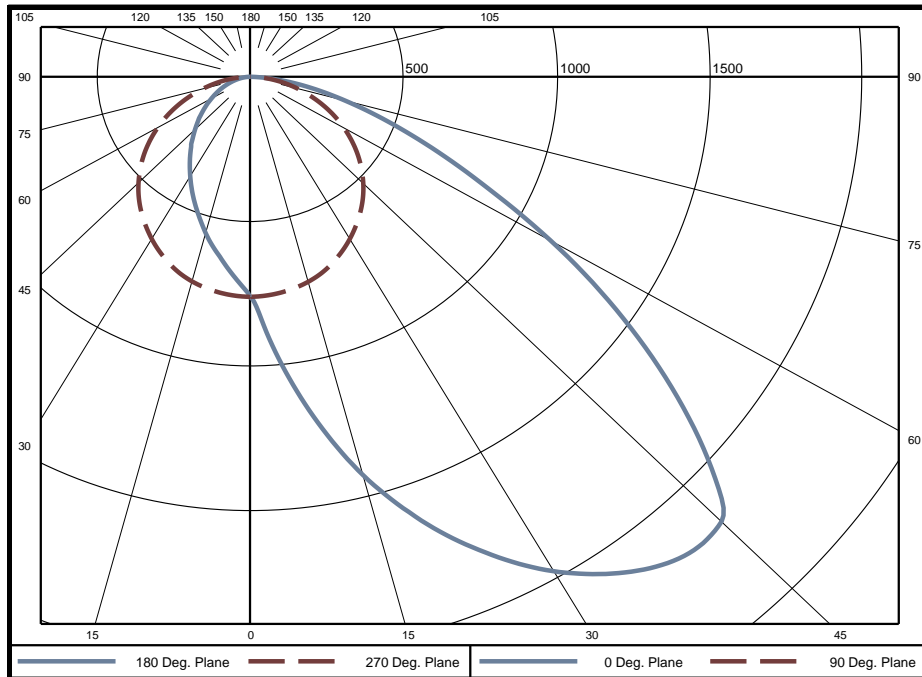
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.6335 A	75.90 W	0.998	60 Hz	4.66 %

Summary of Results

Spacing Criteria
 0-180: 2.61
 90-270: 1.26

Total Lumen Output: 3338 Lumens
Luminaire Efficacy: 44.0 lm/w
Maximum Candela: 2186 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	18.7	0.6%	60-65	237.0	7.1%	120-125	0	0.0%
5-10	59.0	1.8%	65-70	180.3	5.4%	125-130	0	0.0%
10-15	103.0	3.1%	70-75	125.2	3.8%	130-135	0	0.0%
15-20	149.4	4.5%	75-80	78.5	2.4%	135-140	0	0.0%
20-25	195.8	5.9%	80-85	39.9	1.2%	140-145	0	0.0%
25-30	240.1	7.2%	85-90	9.6	0.3%	145-150	0	0.0%
30-35	280.2	8.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	314.3	9.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	339.3	10.2%	100-105	0	0.0%	160-165	0	0.0%
45-50	347.7	10.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	329.4	9.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	290.5	8.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1361	40.8%
0-60	2667	79.9%
0-90	3338	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	763	763	763	763	763	763	763	763	763	763	763	763	763	763	763	763
5	956	959	901	819	758	728	708	694	684	694	708	728	758	819	901	959
10	1193	1171	1056	897	749	694	655	633	620	633	655	694	749	897	1056	1171
15	1426	1375	1200	965	734	655	605	577	561	577	605	655	734	965	1200	1375
20	1633	1556	1330	1020	713	615	556	519	502	519	556	615	713	1020	1330	1556
25	1814	1707	1429	1056	683	570	503	464	446	464	503	570	683	1056	1429	1707
30	1973	1828	1498	1073	649	524	450	411	393	411	450	524	649	1073	1498	1828
35	2094	1917	1539	1072	610	475	400	361	344	361	400	475	610	1072	1539	1917
40	2174	1965	1549	1052	568	425	351	314	299	314	351	425	568	1052	1549	1965
45	2173	1952	1526	1014	521	374	303	269	254	269	303	374	521	1014	1526	1952
50	1889	1764	1466	957	469	323	258	228	215	228	258	323	469	957	1466	1764
55	1516	1425	1345	880	412	272	215	190	177	190	215	272	412	880	1345	1425
60	1129	1073	1074	781	352	222	175	154	143	154	175	222	352	781	1074	1073
65	778	746	787	656	290	175	137	121	112	121	137	175	290	656	787	746
70	519	495	527	486	225	131	103	91	83	91	103	131	225	486	527	495
75	324	307	326	303	162	91	72	64	58	64	72	91	162	303	326	307
80	178	166	174	171	103	56	45	39	35	39	45	56	103	171	174	166
85	63	56	62	66	47	26	21	18	15	18	21	26	47	66	62	56
90	1	1	2	3	4	3	2	2	1	2	2	3	4	3	2	1
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

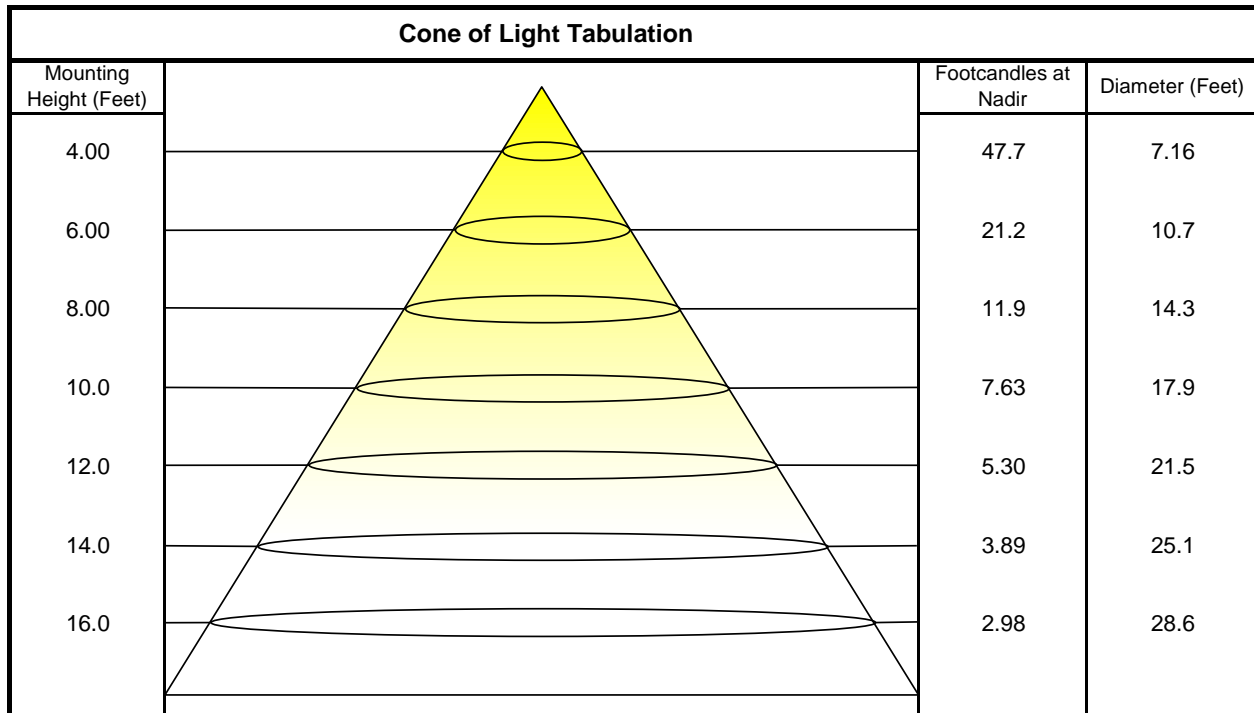
	0	45	90
0	2619	2619	2619
45	10550	7407	2527
55	9071	8047	2467
65	6319	6391	2351
75	4299	4316	2145
85	2498	2433	1841



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	3974	3974	3974	3974	3882	3882	3882	3882	3709	3709	3709	3551	3551	3551	3406	3406	3406	3338
1	3630	3470	3327	3198	3539	3394	3264	3146	3252	3145	3046	3122	3034	2953	3001	2931	2865	2795
2	3292	3012	2781	2587	3203	2949	2736	2555	2830	2650	2496	2720	2570	2438	2618	2494	2384	2311
3	2989	2629	2351	2129	2905	2576	2318	2109	2475	2254	2071	2383	2194	2035	2296	2136	1999	1925
4	2724	2313	2012	1783	2646	2268	1987	1770	2183	1939	1745	2105	1892	1720	2031	1848	1696	1622
5	2493	2052	1743	1515	2422	2014	1724	1507	1942	1686	1489	1875	1650	1473	1812	1615	1456	1383
6	2292	1834	1526	1306	2227	1802	1511	1300	1740	1481	1287	1683	1452	1275	1629	1424	1264	1193
7	2116	1651	1350	1138	2057	1623	1337	1134	1571	1313	1125	1522	1289	1116	1476	1267	1107	1039
8	1962	1496	1204	1003	1908	1473	1194	1000	1428	1174	993	1385	1155	986	1345	1136	980	914
9	1826	1365	1082	892	1777	1344	1074	889	1305	1058	884	1268	1042	879	1234	1026	874	811
10	1706	1252	980	799	1662	1234	973	797	1200	959	793	1168	946	789	1138	933	785	725

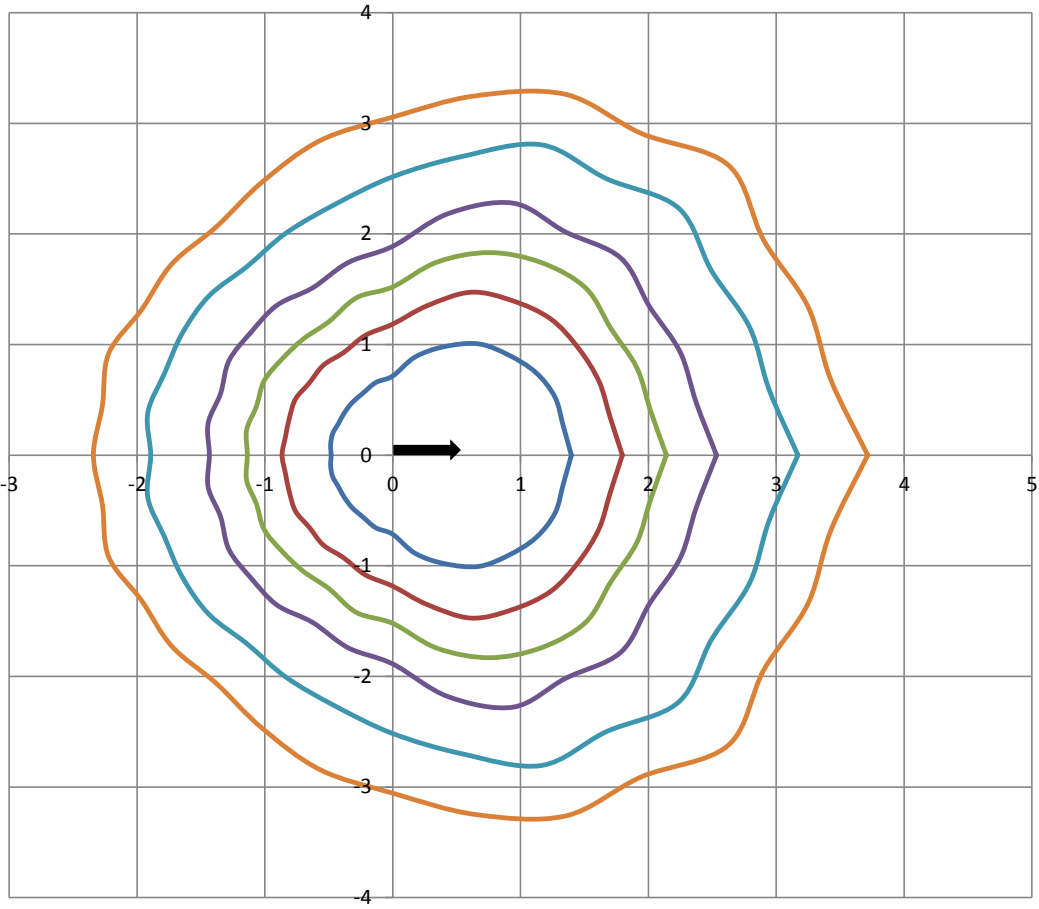
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	763 Candela
Central Cone Intensity:	777 Candela
Beam Flux:	2822.9 Lumens
Beam Angle (0-180):	104.5 Degrees
Beam Angle (90-270):	115.1 Degrees
Field Angle (0-180):	155.6 Degrees
Field Angle (90-270):	164.6 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

