



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
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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-DN-XX-XX
Order Number
11969789
Test Number
11969789.03

Test Date

2017-10-09

Prepared By

Derek Smarr, Technician

Approved By

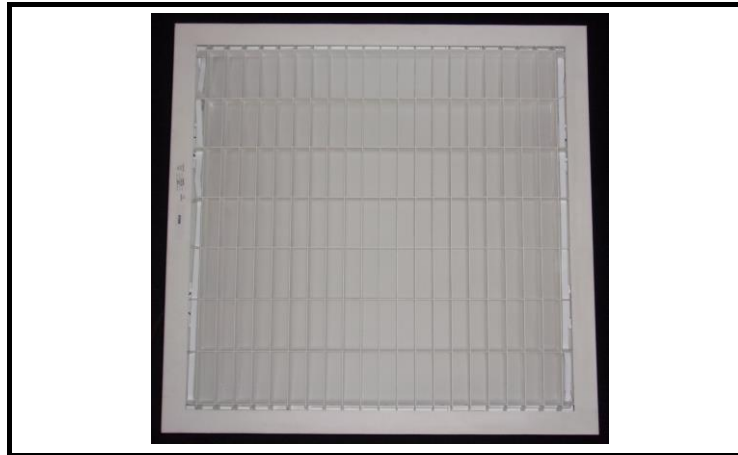
Alexa Lambert, Project Handler

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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:	5003 Lumens
Luminaire Efficacy:	65.8 lm/w
Maximum Candela:	2987 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.6349 A
Power:	76.06 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	4.64 %

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



Distribution - Goniophotometer

Distribution Test Conditions

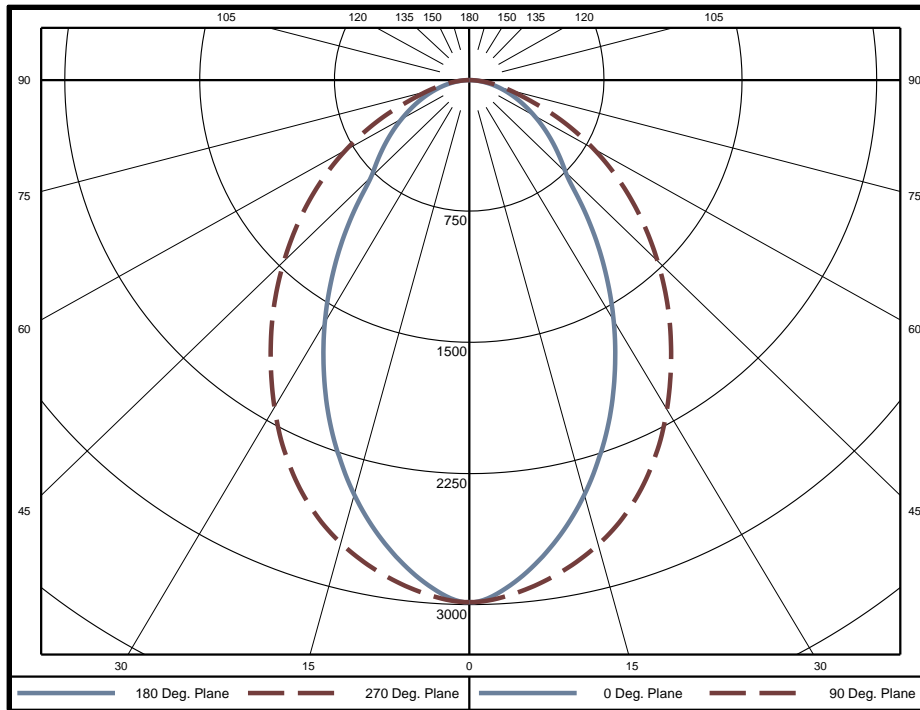
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.6349 A	76.06 W	0.998	60 Hz	4.64 %

Summary of Results

Spacing Criteria
 0-180: 0.89
 90-270: 1.10

Total Lumen Output: 5003 Lumens
Luminaire Efficacy: 65.8 lm/w
Maximum Candela: 2987 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	70.4	1.4%	60-65	225.1	4.5%	120-125	0	0.0%
5-10	202.2	4.0%	65-70	172.9	3.5%	125-130	0	0.0%
10-15	315.0	6.3%	70-75	125.2	2.5%	130-135	0	0.0%
15-20	403.7	8.1%	75-80	84.1	1.7%	135-140	0	0.0%
20-25	464.5	9.3%	80-85	47.1	0.9%	140-145	0	0.0%
25-30	494.7	9.9%	85-90	14.5	0.3%	145-150	0	0.0%
30-35	496.2	9.9%	90-95	0	0.0%	150-155	0	0.0%
35-40	473.5	9.5%	95-100	0	0.0%	155-160	0	0.0%
40-45	429.9	8.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	378.6	7.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	328.2	6.6%	110-115	0	0.0%	170-175	0	0.0%
55-60	277.3	5.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2920	58.4%
0-60	4334	86.6%
0-90	5003	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986	2986
	5	2882	2885	2903	2928	2945	2928	2903	2885	2882	2885	2903	2928	2945	2928	2903	2885
	10	2692	2695	2738	2806	2861	2806	2738	2695	2692	2695	2738	2806	2861	2806	2738	2695
	15	2458	2465	2535	2649	2746	2649	2535	2465	2458	2465	2535	2649	2746	2649	2535	2465
	20	2192	2205	2308	2460	2593	2460	2308	2205	2192	2205	2308	2460	2593	2460	2308	2205
	25	1901	1926	2056	2235	2396	2235	2056	1926	1901	1926	2056	2235	2396	2235	2056	1926
	30	1603	1636	1783	1987	2169	1987	1783	1636	1603	1636	1783	1987	2169	1987	1783	1636
	35	1303	1351	1512	1735	1929	1735	1512	1351	1303	1351	1512	1735	1929	1735	1512	1351
	40	1011	1072	1250	1486	1693	1486	1250	1072	1011	1072	1250	1486	1693	1486	1250	1072
	45	761	808	1000	1246	1457	1246	1000	808	761	808	1000	1246	1457	1246	1000	808
	50	637	648	769	1022	1229	1022	769	648	637	648	769	1022	1229	1022	769	648
	55	526	534	583	812	1006	812	583	534	526	534	583	812	1006	812	583	534
	60	424	430	465	619	787	619	465	430	424	430	465	619	787	619	465	430
	65	332	337	361	448	575	448	361	337	332	337	361	448	575	448	361	337
	70	250	253	269	312	373	312	269	253	250	253	269	312	373	312	269	253
	75	177	178	188	210	240	210	188	178	177	178	188	210	240	210	188	178
80	111	112	117	127	141	127	117	112	111	112	117	127	141	127	117	112	
85	50	52	54	57	61	57	54	52	50	52	54	57	61	57	54	52	
90	2	4	5	6	7	6	5	4	2	4	5	6	7	6	5	4	
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)

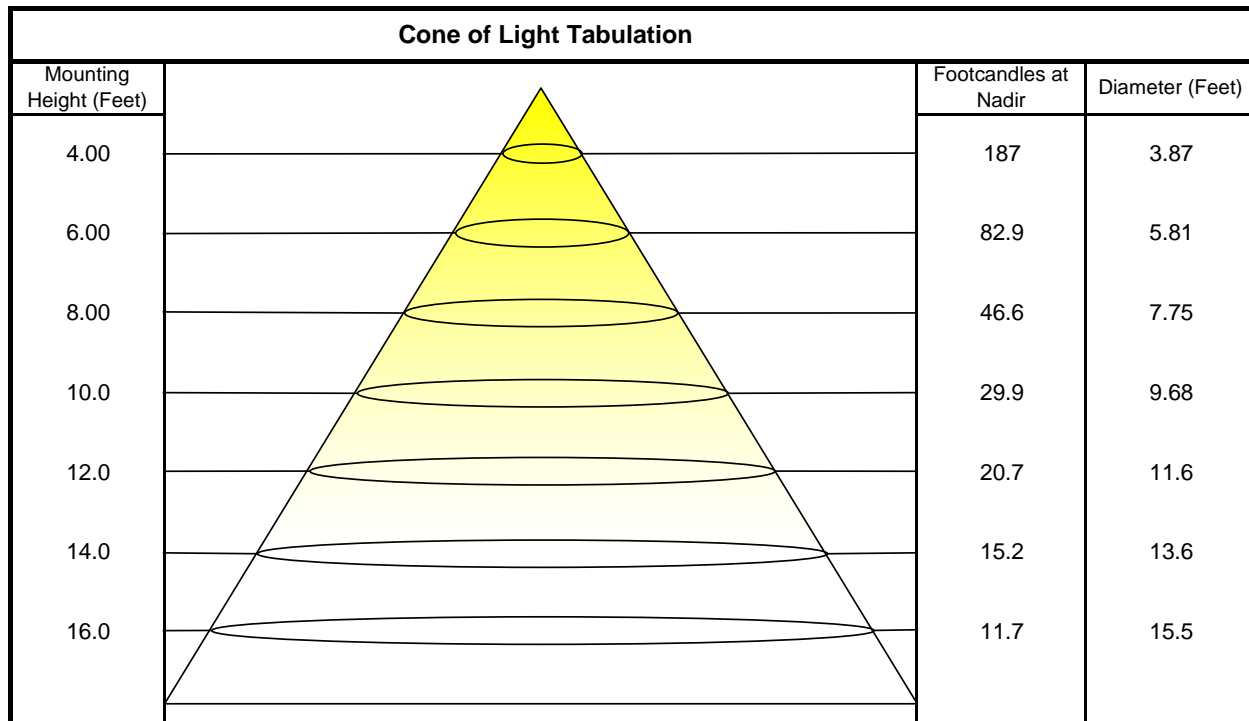
Vertical Angle (Degrees)	0	45	90	
	0	10250	10250	10250
	45	3694	4856	7074
	55	3148	3491	6022
	65	2699	2934	4669
	75	2344	2492	3181
85	1987	2122	2415	



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	5956	5956	5956	5956	5818	5818	5818	5818	5559	5559	5559	5322	5322	5322	5105	5105	5105	5003
1	5519	5312	5127	4961	5387	5200	5032	4880	4991	4853	4727	4798	4687	4584	4621	4532	4449	4349
2	5091	4731	4433	4183	4965	4639	4366	4134	4466	4237	4040	4307	4117	3949	4159	4003	3863	3763
3	4701	4236	3877	3590	4584	4160	3827	3559	4016	3732	3498	3883	3642	3439	3759	3556	3382	3282
4	4352	3818	3428	3129	4244	3755	3390	3108	3634	3318	3067	3522	3249	3028	3418	3183	2989	2890
5	4042	3464	3060	2763	3943	3410	3032	2748	3309	2976	2720	3214	2922	2692	3126	2871	2665	2568
6	3764	3161	2756	2466	3675	3116	2733	2455	3030	2689	2435	2949	2647	2416	2874	2606	2396	2302
7	3517	2900	2501	2221	3435	2862	2483	2213	2788	2447	2199	2719	2413	2184	2654	2380	2170	2079
8	3295	2675	2284	2016	3221	2641	2269	2011	2578	2241	2000	2519	2213	1989	2463	2185	1978	1890
9	3097	2478	2099	1843	3030	2449	2087	1839	2395	2063	1830	2343	2040	1822	2295	2017	1814	1729
10	2918	2305	1939	1695	2858	2281	1929	1691	2233	1909	1685	2188	1889	1678	2146	1871	1672	1591

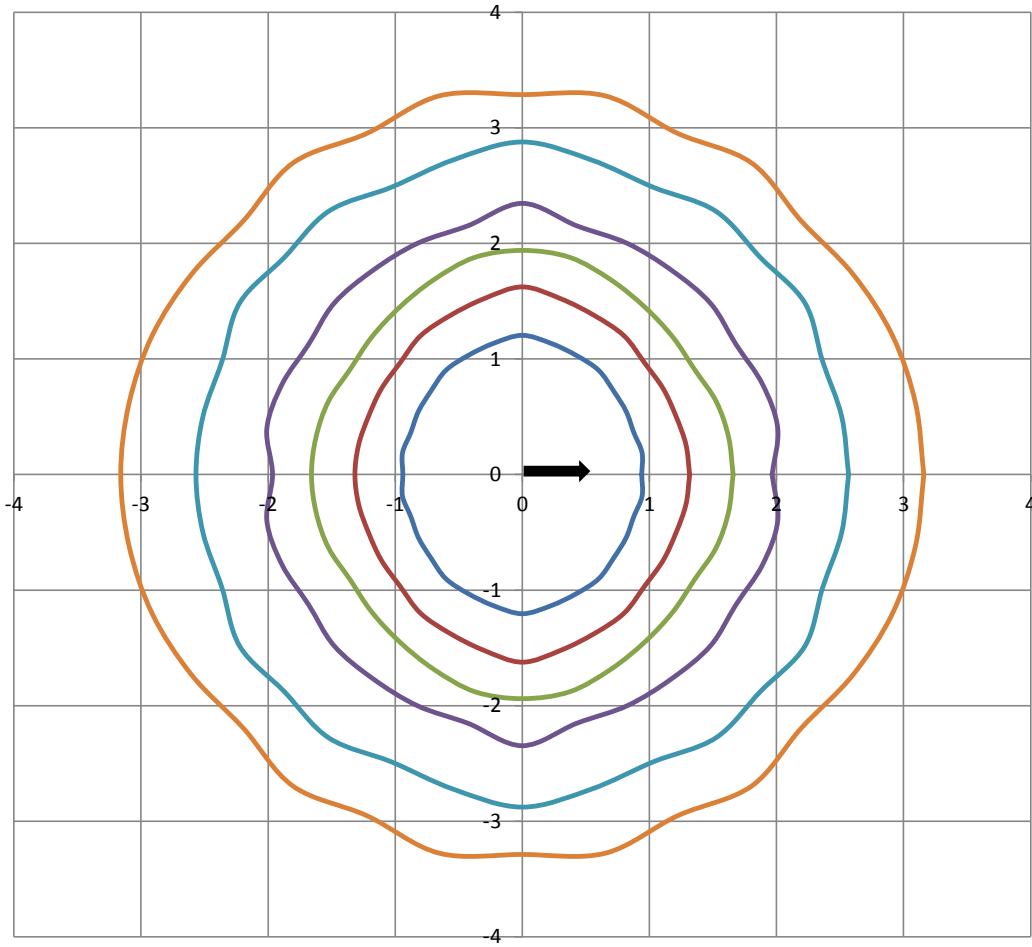
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2986 Candela
Central Cone Intensity:	2956 Candela
Beam Flux:	2636.3 Lumens
Beam Angle (0-180):	63.7 Degrees
Beam Angle (90-270):	88.5 Degrees
Field Angle (0-180):	134.0 Degrees
Field Angle (90-270):	144.9 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

