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Indoor Distribution Test Report

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

Prepared For
TechBrite LLC
1000 Kieley Pl
Cincinnati, OH 45217
United States

Catalog Number
LT424SS1B35DC000,RT424SS1B35DC000
Order Number
11748594
Test Number
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Test Date

2017-05-06

Prepared By

Dane Hernandez-Adams, Technician

Approved By

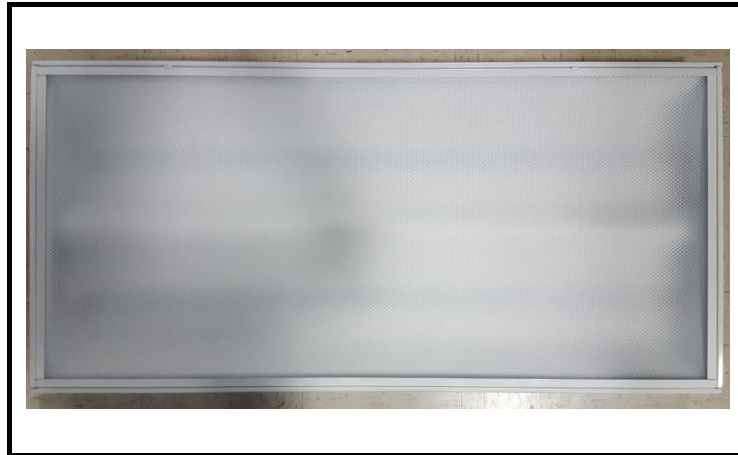
Tiffany Hamm, Project Handler

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Luminaire Description: White steel housing, prismatic lens enclosure. Tested in an A.L.P EL 2x4 housing.
Lamp: 224 white LEDs
Mounting: Surface – Ceiling
Ballast/Driver: Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 45.00 in.
Luminous Width: 21.00 in.

Summary of Results

Total Luminaire Output:	5713 Lumens
Luminaire Efficacy:	115 lm/w
Maximum Candela:	2361 Candela

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.4147 A
Power:	49.66 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.23 %

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



Distribution - Goniophotometer

Distribution Test Conditions

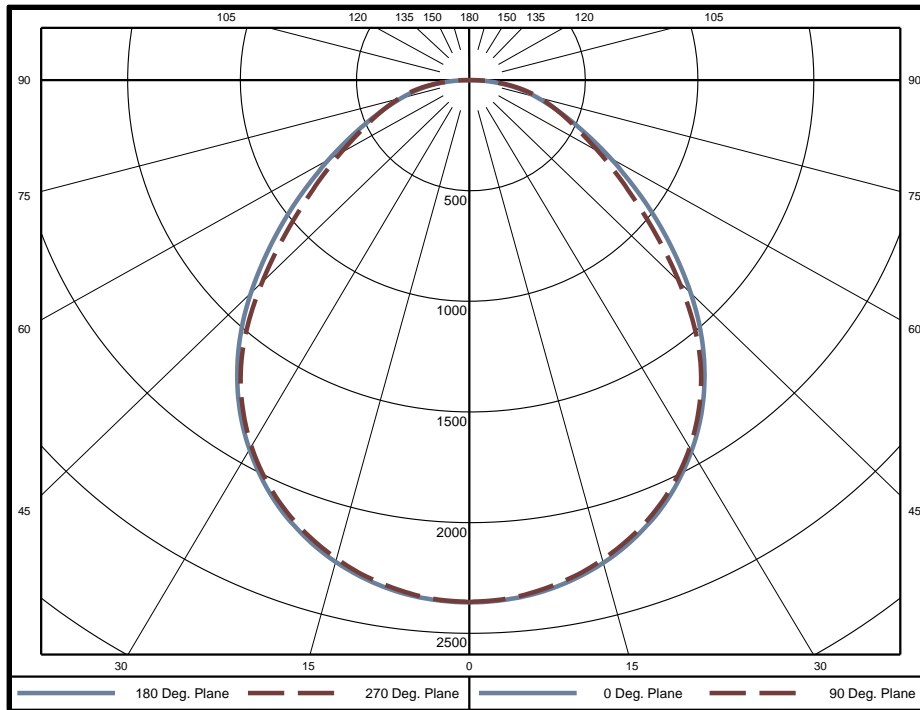
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.4147 A	49.66 W	0.998	60 Hz	5.23 %

Summary of Results

Spacing Criteria
 0-180: 1.22
 90-270: 1.22

Total Lumen Output: 5713 Lumens
Luminaire Efficacy: 115.0 lm/w
Maximum Candela: 2361 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	56.3	1.0%	60-65	293.5	5.1%	120-125	0	0.0%
5-10	166.7	2.9%	65-70	236.0	4.1%	125-130	0	0.0%
10-15	270.7	4.7%	70-75	188.0	3.3%	130-135	0	0.0%
15-20	364.3	6.4%	75-80	142.6	2.5%	135-140	0	0.0%
20-25	443.7	7.8%	80-85	91.7	1.6%	140-145	0	0.0%
25-30	504.8	8.8%	85-90	35.9	0.6%	145-150	0	0.0%
30-35	543.5	9.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	555.9	9.7%	95-100	0	0.0%	155-160	0	0.0%
40-45	538.5	9.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	492.9	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	428.9	7.5%	110-115	0	0.0%	170-175	0	0.0%
55-60	359.5	6.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2906	50.9%
0-60	4726	82.7%
0-90	5713	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359
5	2349	2348	2350	2347	2344	2347	2350	2348	2349	2348	2350	2347	2344	2347	2350	2348
10	2315	2314	2312	2309	2304	2309	2312	2314	2315	2314	2312	2309	2304	2309	2312	2314
15	2259	2255	2251	2248	2244	2248	2251	2255	2259	2255	2251	2248	2244	2248	2251	2255
20	2178	2172	2166	2165	2163	2165	2166	2172	2178	2172	2166	2165	2163	2165	2166	2172
25	2073	2063	2059	2058	2057	2058	2059	2063	2073	2063	2059	2058	2057	2058	2059	2063
30	1940	1928	1923	1923	1924	1923	1923	1928	1940	1928	1923	1923	1924	1923	1923	1928
35	1780	1765	1760	1756	1760	1756	1760	1765	1780	1765	1760	1756	1760	1756	1760	1765
40	1591	1575	1564	1555	1556	1555	1564	1575	1591	1575	1564	1555	1556	1555	1564	1575
45	1372	1363	1347	1315	1303	1315	1347	1363	1372	1363	1347	1315	1303	1315	1347	1363
50	1140	1139	1112	1063	1049	1063	1112	1139	1140	1139	1112	1063	1049	1063	1112	1139
55	917	914	881	842	833	842	881	914	917	914	881	842	833	842	881	914
60	720	709	682	662	659	662	682	709	720	709	682	662	659	662	682	709
65	552	541	520	520	521	520	520	541	552	541	520	520	521	520	520	541
70	417	415	397	411	415	411	397	415	417	415	397	411	415	411	397	415
75	310	311	305	319	324	319	305	311	310	311	305	319	324	319	305	311
80	216	212	216	225	231	225	216	212	216	212	216	225	231	225	216	212
85	111	111	115	123	123	123	115	111	111	111	115	123	123	123	115	111
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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)

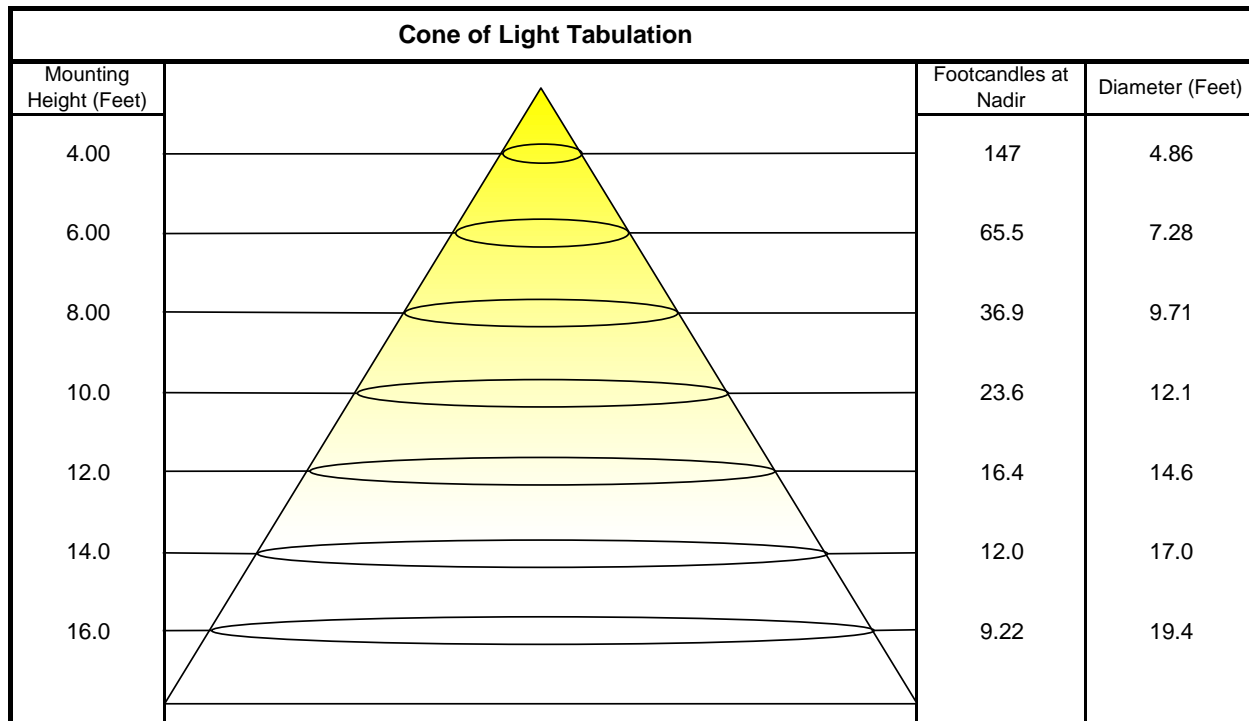
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	3870	3870	3870
45	3183	3124	3023
55	2623	2518	2382
65	2141	2017	2021
75	1966	1933	2055
85	2084	2163	2308



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	6801	6801	6801	6801	6643	6643	6643	6643	6348	6348	6348	6078	6078	6078	5830	5830	5830	5713
1	6240	5979	5744	5533	6086	5849	5636	5443	5607	5432	5271	5385	5242	5110	5180	5065	4958	4840
2	5711	5262	4890	4578	5563	5155	4813	4523	4954	4667	4419	4768	4529	4318	4597	4399	4223	4102
3	5237	4662	4218	3863	5098	4573	4161	3829	4405	4052	3761	4249	3949	3696	4105	3851	3634	3513
4	4819	4163	3683	3316	4690	4088	3640	3293	3947	3557	3249	3816	3478	3205	3693	3403	3163	3043
5	4450	3744	3251	2887	4332	3681	3218	2872	3562	3154	2841	3451	3092	2810	3347	3033	2781	2663
6	4123	3389	2897	2544	4016	3336	2871	2533	3235	2820	2511	3140	2771	2489	3051	2724	2468	2354
7	3833	3087	2603	2264	3736	3041	2582	2256	2955	2541	2240	2873	2501	2224	2797	2463	2208	2098
8	3576	2827	2356	2033	3488	2788	2339	2027	2714	2306	2014	2644	2273	2002	2578	2242	1991	1885
9	3347	2603	2147	1839	3268	2569	2133	1834	2504	2105	1825	2444	2078	1816	2387	2052	1807	1705
10	3143	2407	1968	1675	3071	2378	1956	1671	2322	1933	1664	2269	1910	1657	2219	1888	1650	1552

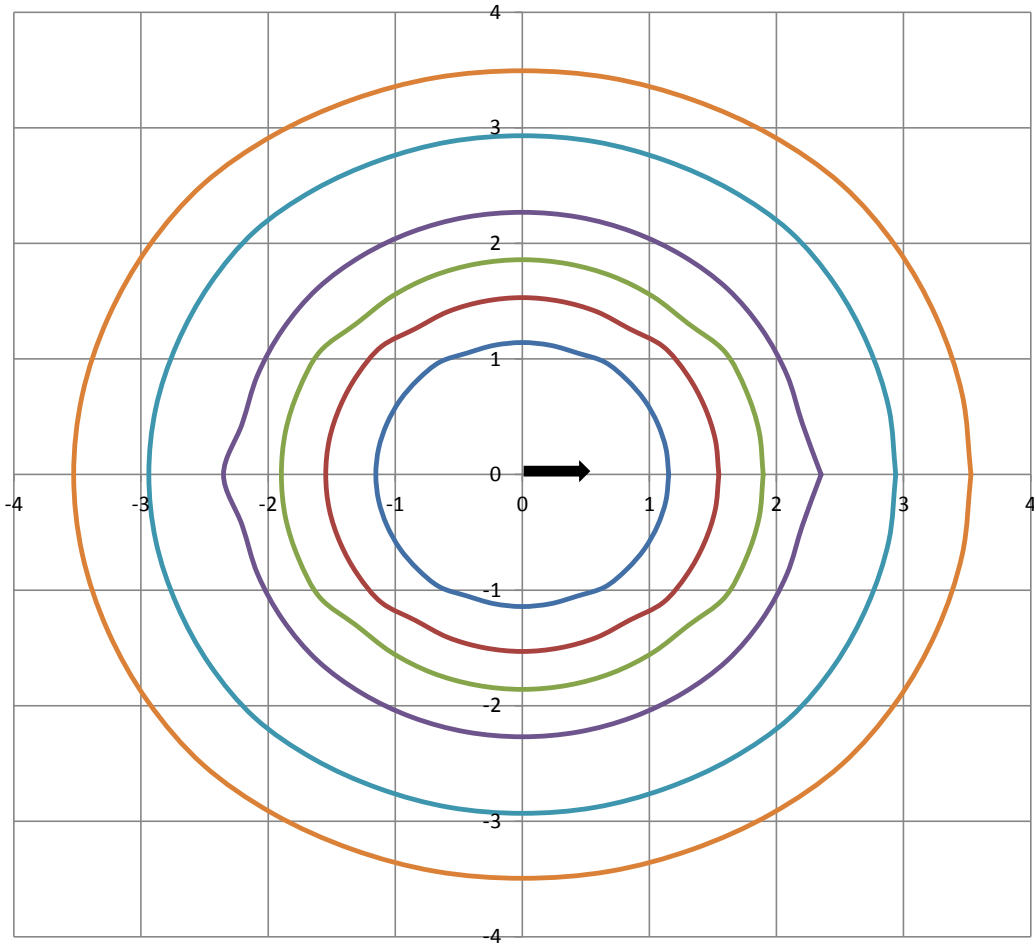
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2359 Candela
Central Cone Intensity:	2355 Candela
Beam Flux:	3786.7 Lumens
Beam Angle (0-180):	98.2 Degrees
Beam Angle (90-270):	94.8 Degrees
Field Angle (0-180):	157.9 Degrees
Field Angle (90-270):	159.5 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

