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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
LT424SS1B40AC000,RT424SS1B40AC000
Order Number
11748594
Test Number
11748594.11

Test Date

2017-05-10

Prepared By

Dane Hernandez-Adams, Technician

Approved By

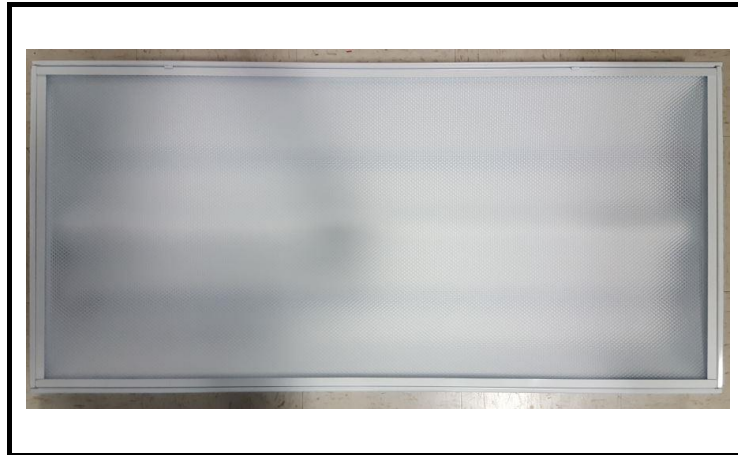
Tiffany Hamm, Project Handler

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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:	3811 Lumens
Luminaire Efficacy:	123.5 lm/w
Maximum Candela:	1571 Candela

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.0 VAC
Current:	0.2581 A
Power:	30.86 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	7.17 %

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



Distribution - Goniophotometer

Distribution Test Conditions

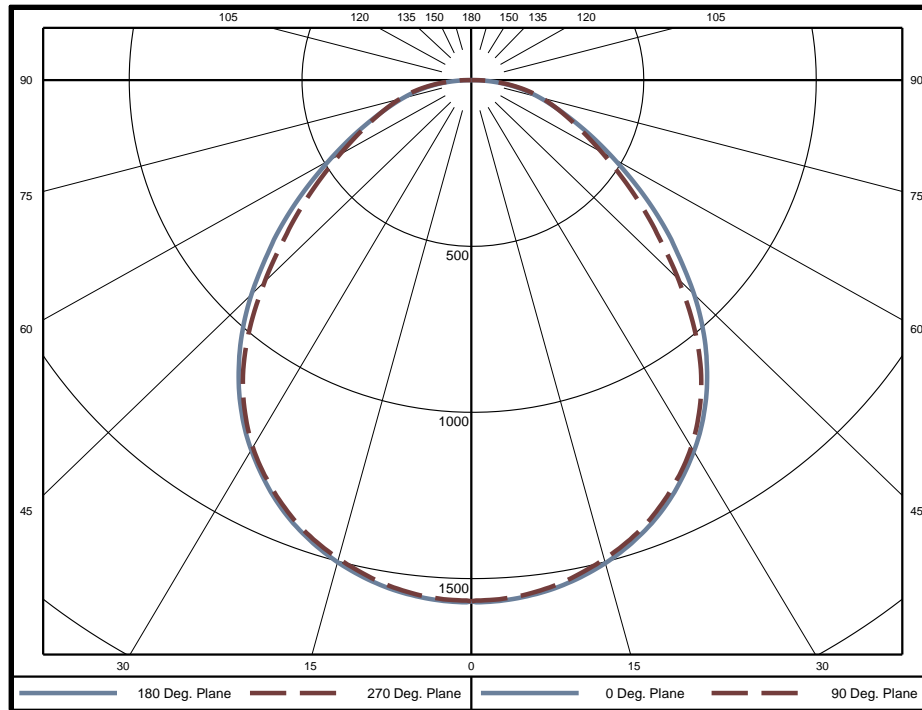
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.2581 A	30.86 W	0.996	60 Hz	7.17 %

Summary of Results

Spacing Criteria
 0-180: 1.23
 90-270: 1.23

Total Lumen Output: 3811 Lumens
Luminaire Efficacy: 123.5 lm/w
Maximum Candela: 1571 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	37.4	1.0%	60-65	197.4	5.2%	120-125	0	0.0%
5-10	110.9	2.9%	65-70	158.8	4.2%	125-130	0	0.0%
10-15	180.1	4.7%	70-75	126.1	3.3%	130-135	0	0.0%
15-20	242.5	6.4%	75-80	95.3	2.5%	135-140	0	0.0%
20-25	295.4	7.8%	80-85	61.0	1.6%	140-145	0	0.0%
25-30	336.2	8.8%	85-90	23.8	0.6%	145-150	0	0.0%
30-35	362.0	9.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	369.7	9.7%	95-100	0	0.0%	155-160	0	0.0%
40-45	357.5	9.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	327.7	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	287.5	7.5%	110-115	0	0.0%	170-175	0	0.0%
55-60	241.6	6.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1934	50.8%
0-60	3149	82.6%
0-90	3811	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	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568	1568
	5	1564	1561	1561	1560	1559	1560	1561	1561	1564	1561	1561	1560	1559	1560	1561	1561
	10	1542	1539	1538	1536	1534	1536	1538	1539	1542	1539	1538	1536	1534	1536	1538	1539
	15	1505	1501	1498	1494	1492	1494	1498	1501	1505	1501	1498	1494	1492	1494	1498	1501
	20	1452	1447	1442	1441	1440	1441	1442	1447	1452	1447	1442	1441	1440	1441	1442	1447
	25	1381	1375	1371	1369	1367	1369	1371	1375	1381	1375	1371	1369	1367	1369	1371	1375
	30	1293	1287	1283	1279	1278	1279	1283	1287	1293	1287	1283	1279	1278	1279	1283	1287
	35	1188	1180	1172	1166	1164	1166	1172	1180	1188	1180	1172	1166	1164	1166	1172	1180
	40	1062	1053	1041	1028	1021	1028	1041	1053	1062	1053	1041	1028	1021	1028	1041	1053
	45	919	911	895	866	855	866	895	911	919	911	895	866	855	866	895	911
	50	767	763	739	707	697	707	739	763	767	763	739	707	697	707	739	763
	55	621	613	589	566	560	566	589	613	621	613	589	566	560	566	589	613
	60	485	475	458	446	442	446	458	475	485	475	458	446	442	446	458	475
	65	373	365	350	350	350	350	350	365	373	365	350	350	350	350	350	365
	70	280	277	268	276	277	276	268	277	280	277	268	276	277	276	268	277
	75	208	207	205	213	216	213	205	207	208	207	205	213	216	213	205	207
80	144	144	145	149	152	149	145	144	144	144	145	149	152	149	145	144	
85	74	73	77	80	81	80	77	73	74	73	77	80	81	80	77	73	
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)

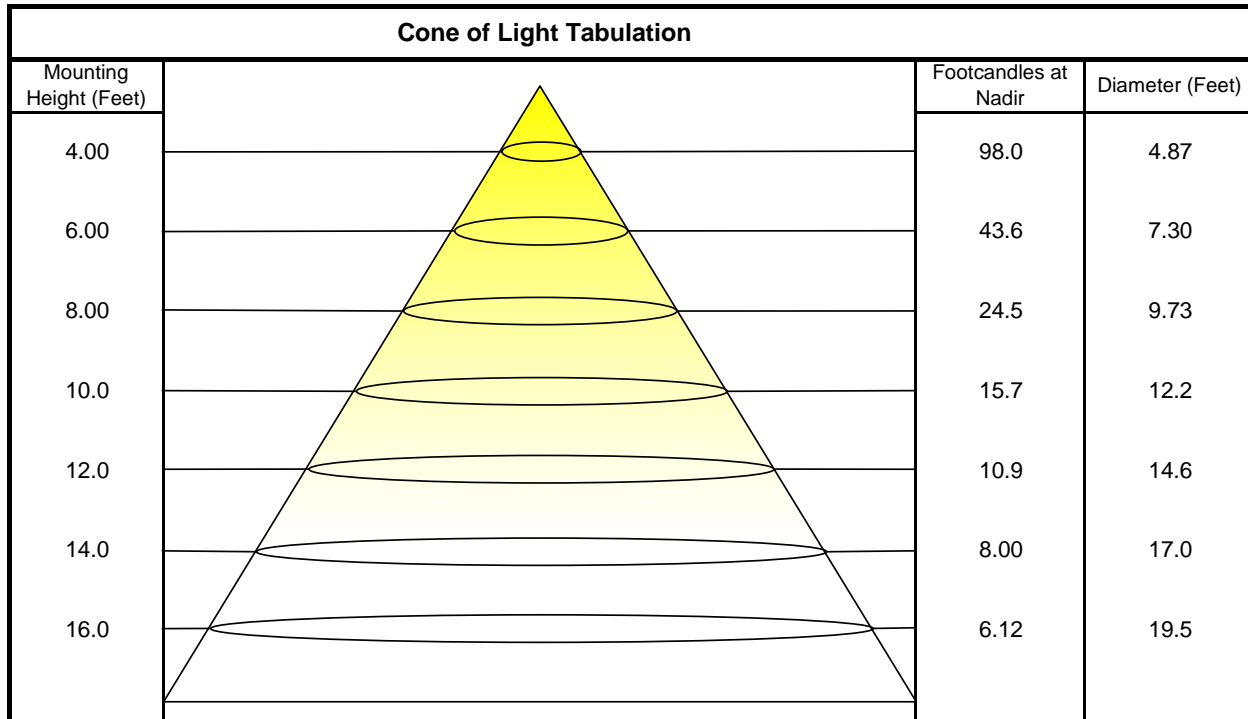
Vertical Angle (Degrees)	0	45	90	
	0	2572	2572	2572
	45	2133	2075	1984
	55	1777	1683	1602
	65	1446	1360	1358
	75	1320	1298	1368
	85	1394	1449	1525



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	4537	4537	4537	4537	4431	4431	4431	4431	4234	4234	4234	4054	4054	4054	3889	3889	3889	3811
1	4162	3987	3831	3690	4059	3901	3759	3629	3740	3622	3515	3591	3496	3407	3454	3378	3306	3228
2	3809	3509	3260	3052	3710	3437	3209	3015	3303	3111	2945	3179	3019	2879	3065	2933	2815	2734
3	3492	3108	2811	2574	3399	3048	2773	2551	2936	2701	2506	2832	2632	2463	2736	2567	2421	2341
4	3212	2775	2454	2209	3127	2725	2425	2194	2630	2370	2164	2543	2318	2135	2461	2267	2107	2027
5	2966	2495	2166	1923	2888	2453	2144	1913	2373	2101	1892	2299	2060	1872	2230	2020	1852	1774
6	2748	2259	1930	1694	2677	2223	1912	1687	2155	1878	1672	2092	1846	1658	2033	1814	1643	1567
7	2555	2057	1734	1508	2490	2026	1720	1502	1968	1692	1491	1914	1666	1481	1863	1641	1470	1397
8	2384	1884	1569	1353	2325	1858	1558	1349	1808	1535	1341	1761	1514	1333	1717	1493	1325	1255
9	2231	1734	1430	1224	2178	1711	1420	1221	1669	1402	1215	1628	1384	1209	1590	1367	1203	1135
10	2095	1604	1310	1115	2047	1584	1302	1112	1547	1287	1108	1512	1272	1103	1478	1258	1098	1033

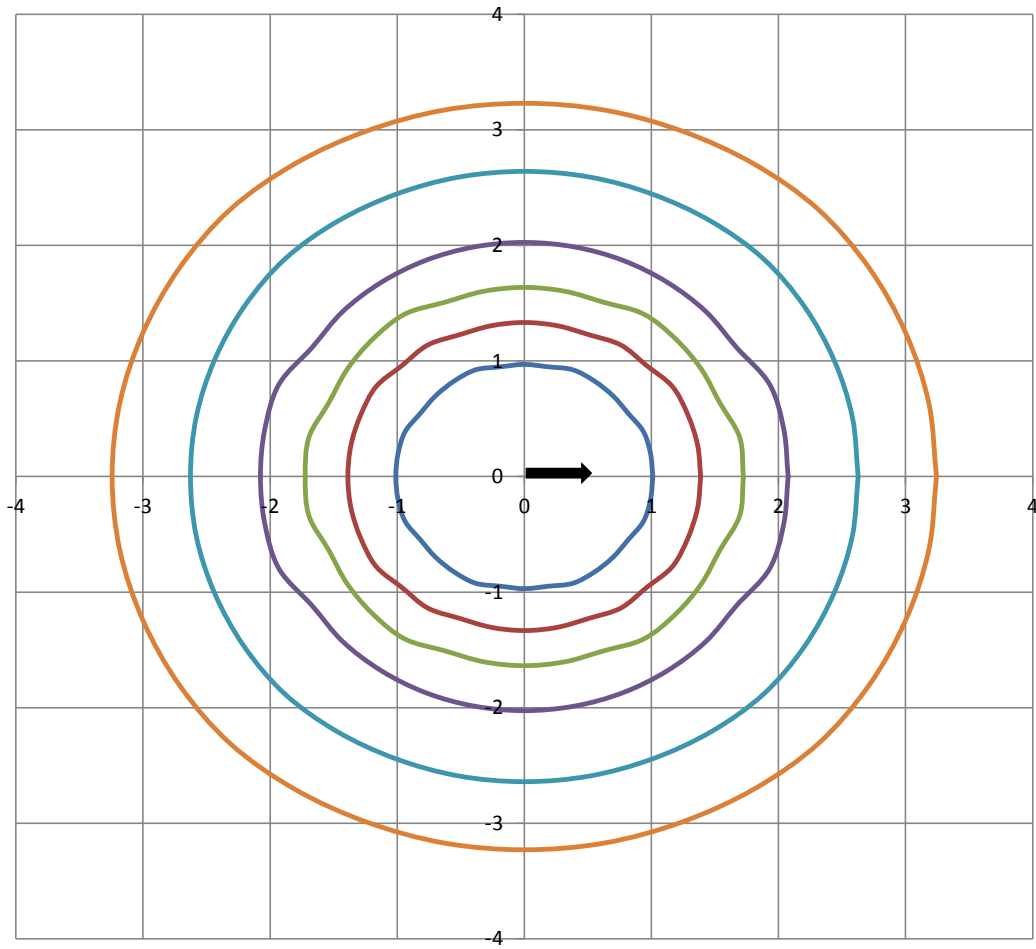
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1568 Candela
Central Cone Intensity:	1566 Candela
Beam Flux:	2520.4 Lumens
Beam Angle (0-180):	98.8 Degrees
Beam Angle (90-270):	94.3 Degrees
Field Angle (0-180):	158.0 Degrees
Field Angle (90-270):	159.3 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

