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ACCREDITED

NVLAP LAB CODE 201042-0

Indoor Distribution Test Report

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

Prepared For

Techbrite LLC
1000 Kieley Pl
Cincinnati OH 45127
United States

Catalog Number

RB4126SS1B5A0000

Order Number
11621041
Test Number
11621041.16

Test Date

2017-05-23

Prepared By

Dane Hernandez-Adams, Technician

Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.
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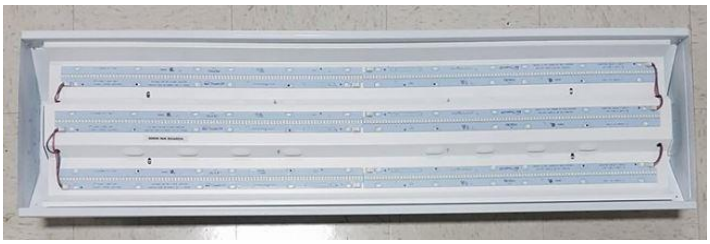
Luminaire Description: Formed white steel housing, no lens enclosureTested in body - Preapproved by DLCTechbrite B-4-14-4-T5-*M-*-*-blank
Lamp: 576 white LEDs
Mounting: Pendant
Ballast/Driver: Two Universal Lighting Technologies Everline D15CC55UNVTW-C drivers

Luminaire



Luminaire Characteristics

Luminous Length:	48.25 in.
Luminous Width:	12.50 in.

Summary of Results

Total Luminaire Output:	10990 Lumens
Luminaire Efficacy:	154.6 lm/w
Maximum Candela:	3715 Candela

Test Conditions

Test Temperature:	25.2	°C
Voltage:	120.0	VAC
Current:	0.5939	A
Power:	71.08	W
Power Factor:	0.997	
Frequency:	60	Hz
Current THD:	6.54	%

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

Distribution - Goniophotometer

Distribution Test Conditions

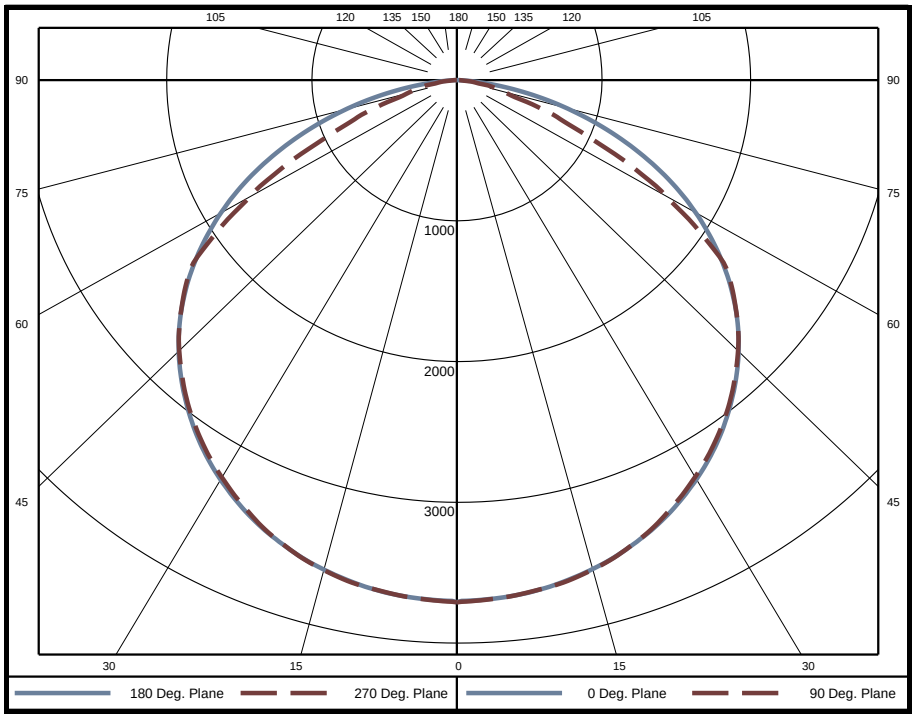
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.5939 A	71.08 W	0.997	60 Hz	6.54 %

Summary of Results

Spacing Criteria
0-180: 1.31
90-270: 1.31

Total Lumen Output: 10990 Lumens
Luminaire Efficacy: 154.6 lm/w
Maximum Candela: 3715 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	89	0.8%	60-65	783	7.1%	120-125	0	0.0%
5-10	263	2.4%	65-70	581	5.3%	125-130	0	0.0%
10-15	431	3.9%	70-75	379	3.4%	130-135	0	0.0%
15-20	587	5.3%	75-80	215	2.0%	135-140	0	0.0%
20-25	727	6.6%	80-85	90	0.8%	140-145	0	0.0%
25-30	845	7.7%	85-90	20	0.2%	145-150	0	0.0%
30-35	940	8.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	1007	9.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	1043	9.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	1048	9.5%	105-110	0	0.0%	165-170	0	0.0%
50-55	1016	9.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	931	8.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	4889	44.5%
0-60	8927	81.2%
0-90	10995	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	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711	3711
5	3689	3701	3701	3703	3690	3703	3701	3701	3689	3701	3701	3703	3690	3703	3701	3701
10	3655	3665	3666	3670	3656	3670	3666	3665	3655	3665	3666	3670	3656	3670	3666	3665
15	3594	3607	3607	3607	3598	3607	3607	3607	3594	3607	3607	3607	3598	3607	3607	3607
20	3512	3524	3522	3517	3510	3517	3522	3524	3512	3524	3522	3517	3510	3517	3522	3524
25	3406	3414	3411	3403	3392	3403	3411	3414	3406	3414	3411	3403	3392	3403	3411	3414
30	3272	3280	3272	3265	3253	3265	3272	3280	3272	3280	3272	3265	3253	3265	3272	3280
35	3113	3116	3110	3106	3095	3106	3110	3116	3113	3116	3110	3106	3095	3106	3110	3116
40	2926	2928	2923	2919	2915	2919	2923	2928	2926	2928	2923	2919	2915	2919	2923	2928
45	2716	2714	2711	2709	2712	2709	2711	2714	2716	2714	2711	2709	2712	2709	2711	2714
50	2474	2470	2468	2471	2477	2471	2468	2470	2474	2470	2468	2471	2477	2471	2468	2470
55	2192	2191	2197	2206	2185	2206	2197	2191	2192	2191	2197	2206	2185	2206	2197	2191
60	1878	1881	1899	1744	1642	1744	1899	1881	1878	1881	1899	1744	1642	1744	1899	1881
65	1532	1536	1488	1207	1070	1207	1488	1536	1532	1536	1488	1207	1070	1207	1488	1536
70	1158	1172	971	696	660	696	971	1172	1158	1172	971	696	660	696	971	1172
75	783	771	490	347	345	347	490	771	783	771	490	347	345	347	490	771
80	422	347	207	213	214	213	207	347	422	347	207	213	214	213	207	347
85	127	79	81	81	60	81	81	79	127	79	81	81	60	81	81	79
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/m^2)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
0	9536	9536	9536
45	9873	9853	9857
55	9821	9844	9790
65	9314	9050	6508
75	7770	4867	3425
85	3754	2382	1757

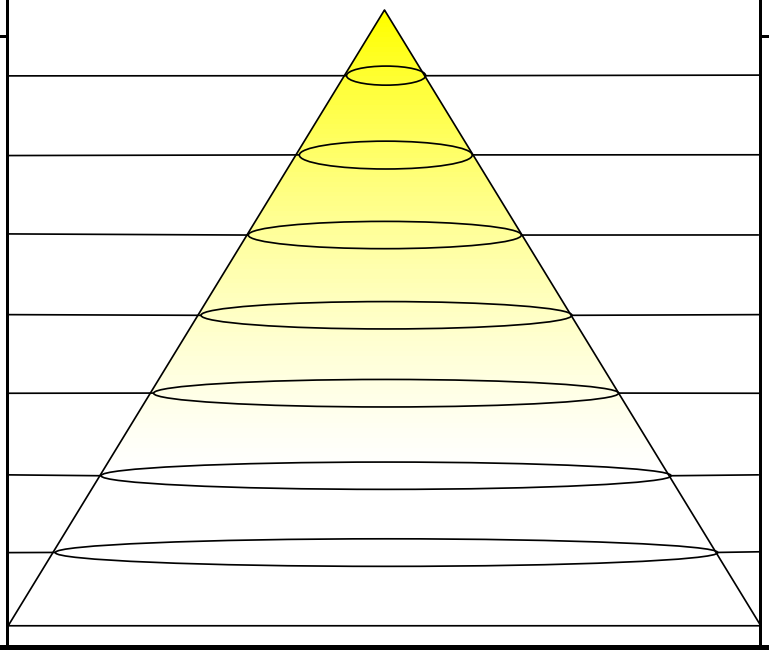
Utilization of Lumens - Zonal Cavity Method

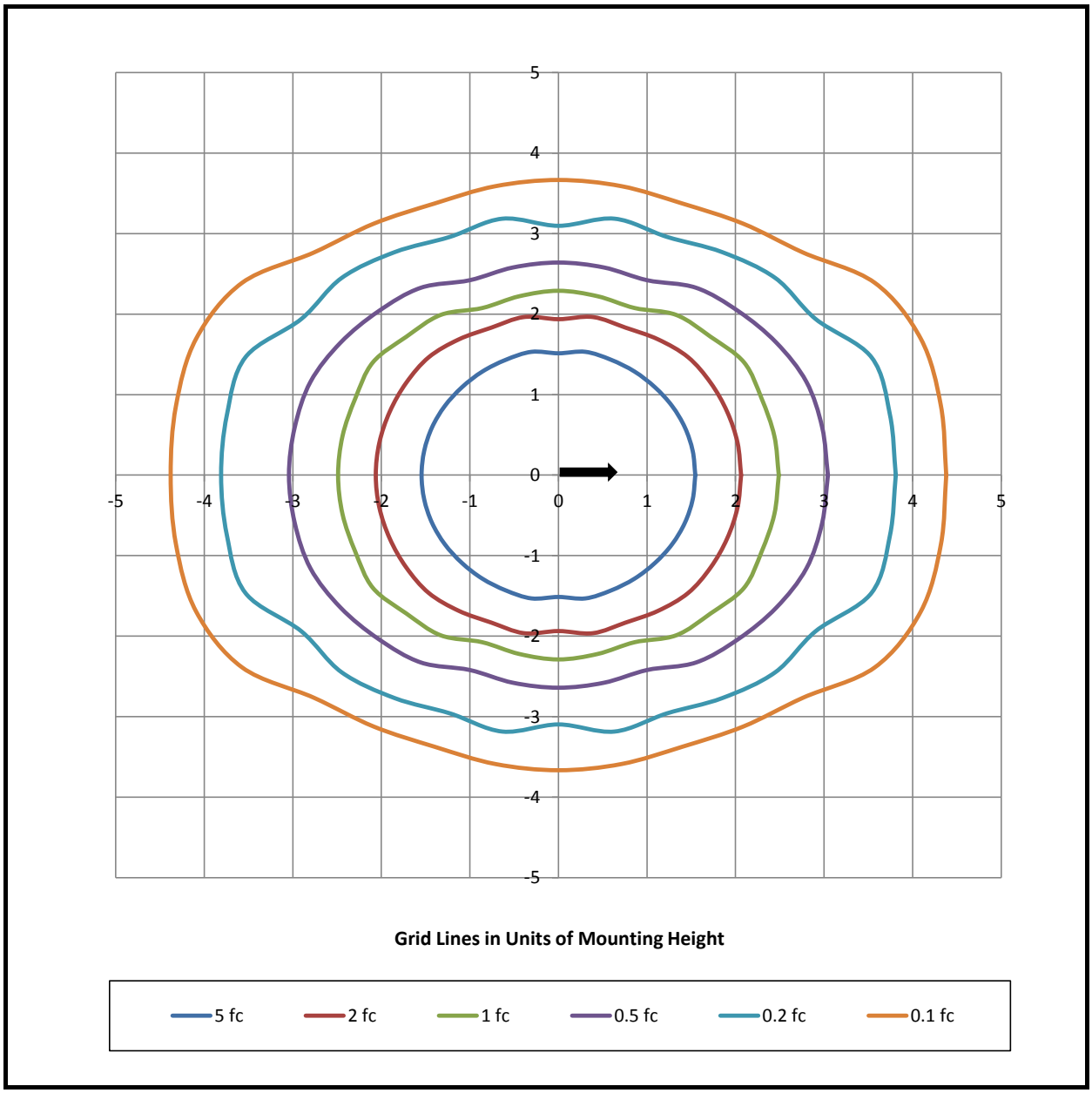
Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	13088	13088	13088	13088	12784	12784	12784	12784	12215	12215	12215	11696	11696	11696	11218	11218	11218	10994
1	12008	11504	11053	10646	11711	11256	10845	10473	10790	10452	10142	10362	10087	9832	9967	9747	9540	9313
2	10928	10041	9306	8689	10641	9834	9158	8585	9444	8876	8385	9085	8611	8194	8754	8362	8012	7776
3	9956	8810	7922	7215	9684	8636	7813	7150	8309	7603	7023	8006	7405	6900	7725	7217	6781	6542
4	9104	7791	6830	6095	8851	7645	6747	6052	7369	6587	5968	7112	6435	5886	6873	6290	5807	5568
5	8360	6946	5958	5229	8128	6822	5894	5200	6588	5770	5142	6371	5651	5085	6167	5536	5030	4796
6	7708	6239	5254	4547	7497	6135	5203	4526	5935	5104	4485	5749	5010	4444	5575	4918	4405	4177
7	7137	5645	4678	4000	6945	5555	4637	3985	5385	4557	3955	5225	4481	3925	5075	4406	3896	3676
8	6635	5141	4201	3556	6461	5064	4168	3544	4917	4103	3521	4780	4040	3499	4650	3979	3477	3266
9	6192	4710	3802	3189	6035	4643	3774	3180	4517	3721	3163	4398	3668	3145	4285	3618	3128	2926
10	5800	4339	3465	2883	5658	4281	3442	2876	4171	3397	2862	4067	3353	2849	3969	3311	2835	2642

Beam and Field Information	
CIE Type:	Direct
Center Beam Intenisty:	3711 Candela
Central Cone Intensity:	3706 Candela
Beam Flux:	8893.1 Lumens
Beam Angle (0-180):	120.7 Degrees
Beam Angle (90-270):	116.2 Degrees
Field Angle (0-180):	161.5 Degrees
Field Angle (90-270):	148.2 Degrees

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	232	5.24
6.00	103	7.86
8.00	58.0	10.5
10.0	37.1	13.1
12.0	25.8	15.7
14.0	18.9	18.3
16.0	14.5	21.0



ISOFootcandle Plot

Mounting Height - 8 Feet