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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

RB4126SS1B5E0000

Order Number
11621041
Test Number
11621041.04

Test Date

2017-05-22

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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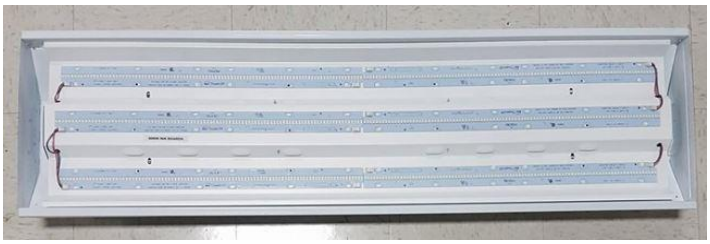
Luminaire Description: Formed white steel housing, no lens enclosureTested in body - Preapproved by DLCTechbrite B-4-14-4-T5-*M-*-*-blank
Lamp: 576 white LEDs
Mounting: Pendant
Ballast/Driver: Two Universal Lighting Technologies Everline D23CC90UNVT-F drivers

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	24470 Lumens
Luminaire Efficacy:	142.8 lm/w
Maximum Candela:	8211 Candela

Test Conditions

Test Temperature:	25.2	°C
Voltage:	120.0	VAC
Current:	1.430	A
Power:	171.3	W
Power Factor:	0.998	
Frequency:	60	Hz
Current THD:	5.51	%

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

Distribution - Goniophotometer

Distribution Test Conditions

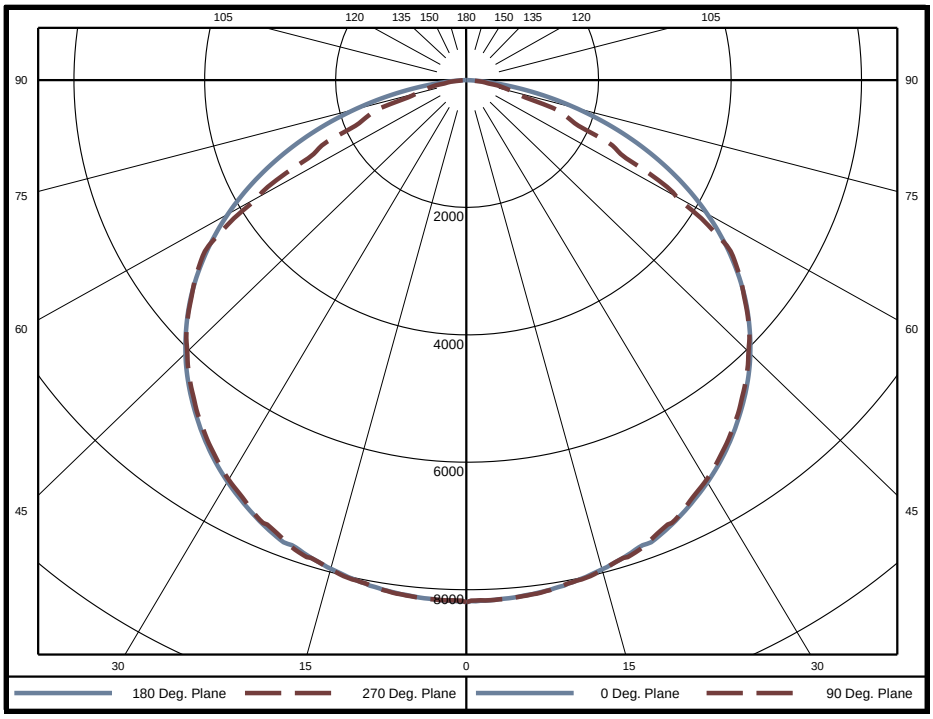
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	1.430 A	171.3 W	0.998	60 Hz	5.51 %

Summary of Results

Spacing Criteria
0-180: 1.32
90-270: 1.32

Total Lumen Output: 24470 Lumens
Luminaire Efficacy: 142.8 lm/w
Maximum Candela: 8211 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	196	0.8%	60-65	1741	7.1%	120-125	0	0.0%
5-10	582	2.4%	65-70	1292	5.3%	125-130	0	0.0%
10-15	953	3.9%	70-75	854	3.5%	130-135	0	0.0%
15-20	1299	5.3%	75-80	481	2.0%	135-140	0	0.0%
20-25	1613	6.6%	80-85	201	0.8%	140-145	0	0.0%
25-30	1880	7.7%	85-90	42	0.2%	145-150	0	0.0%
30-35	2091	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	2240	9.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	2322	9.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	2332	9.5%	105-110	0	0.0%	165-170	0	0.0%
50-55	2262	9.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	2092	8.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	10854	44.4%
0-60	19862	81.2%
0-90	24473	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	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198	8198
5	8155	8180	8180	8185	8158	8185	8180	8180	8155	8180	8180	8185	8158	8185	8180	8180
10	8077	8101	8103	8109	8076	8109	8103	8101	8077	8101	8103	8109	8076	8109	8103	8101
15	7946	7970	7971	7971	7958	7971	7971	7970	7946	7970	7971	7971	7958	7971	7971	7970
20	7770	7801	7805	7798	7797	7798	7805	7801	7770	7801	7805	7798	7797	7798	7805	7801
25	7576	7597	7588	7570	7558	7570	7588	7597	7576	7597	7588	7570	7558	7570	7588	7597
30	7280	7300	7283	7264	7243	7264	7283	7300	7280	7300	7283	7264	7243	7264	7283	7300
35	6927	6936	6921	6911	6886	6911	6921	6936	6927	6936	6921	6911	6886	6911	6921	6936
40	6517	6522	6505	6497	6473	6497	6505	6522	6517	6522	6505	6497	6473	6497	6505	6522
45	6052	6045	6032	6023	6015	6023	6032	6045	6052	6045	6032	6023	6015	6023	6032	6045
50	5514	5506	5495	5498	5500	5498	5495	5506	5514	5506	5495	5498	5500	5498	5495	5506
55	4888	4883	4890	4907	4933	4907	4890	4883	4888	4883	4890	4907	4933	4907	4890	4883
60	4186	4190	4226	4021	3653	4021	4226	4190	4186	4190	4226	4021	3653	4021	4226	4190
65	3414	3415	3415	2492	2430	2492	3415	3415	3414	3415	3415	2492	2430	2492	3415	3415
70	2586	2609	2070	1546	1553	1546	2070	2609	2586	2609	2070	1546	1553	1546	2070	2609
75	1732	1746	1095	767	761	767	1095	1746	1732	1746	1095	767	761	767	1095	1746
80	928	784	457	469	469	469	457	784	928	784	457	469	469	469	457	784
85	277	188	183	155	106	155	183	188	277	188	183	155	106	155	183	188
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	21070	21070	21070
45	21990	21920	21860
55	21900	21910	22100
65	20760	20770	14780
75	17200	10870	7552
85	8177	5408	3124

Utilization of Lumens - Zonal Cavity Method

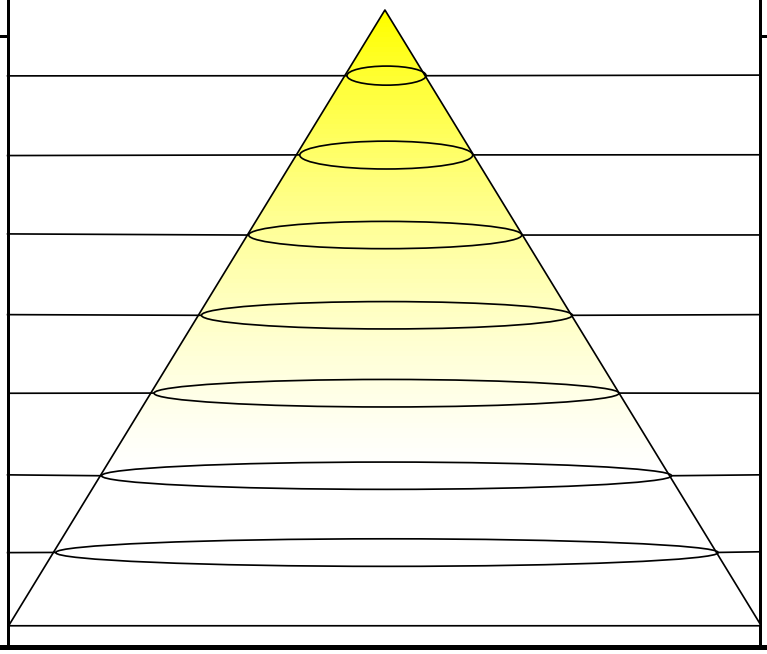
Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	####	29134	29134	29134	28457	28457	28457	28457	27192	27192	27192	26035	26035	26035	24972	24972	24972	####
1	####	25605	24598	23692	26066	25051	24135	23305	24013	23260	22570	23061	22447	21880	22182	21690	21231	####
2	####	22343	20706	19329	23680	21881	20376	19098	21014	19748	18653	20215	19158	18229	19476	18603	17823	####
3	####	19600	17622	16047	21549	19213	17379	15901	18484	16912	15618	17810	16470	15345	17184	16051	15081	####
4	####	17330	15188	13552	19693	17004	15004	13456	16389	14648	13269	15818	14309	13086	15287	13986	12909	####
5	####	15448	13247	11622	18081	15173	13104	11557	14652	12827	11428	14167	12562	11302	13714	12308	11179	####
6	####	13875	11679	10103	16676	13641	11566	10057	13198	11346	9965	12783	11135	9875	12396	10932	9787	9280
7	####	12550	10396	8886	15447	12351	10305	8852	11971	10128	8785	11616	9957	8719	11282	9792	8654	8165
8	####	11428	9335	7897	14371	11257	9260	7871	10931	9116	7821	10624	8976	7771	10336	8840	7722	7252
9	####	10469	8447	7081	13421	10321	8385	7061	10039	8265	7022	9773	8149	6984	9523	8037	6946	6496
10	####	9643	7696	6400	12581	9515	7645	6384	9270	7545	6354	9039	7447	6324	8820	7353	6294	5863

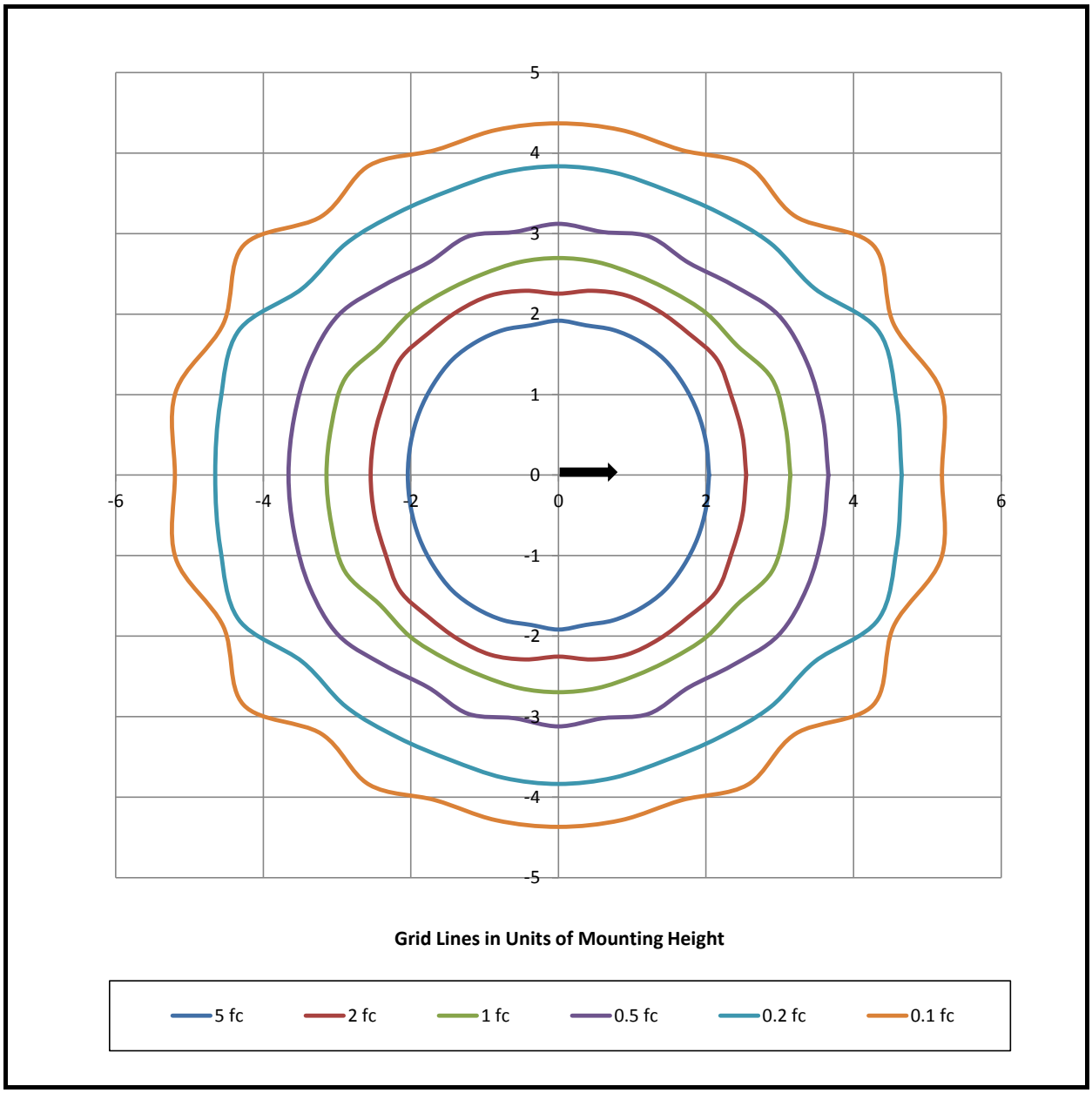
Beam and Field Information

CIE Type:	Direct
Center Beam Intenisty:	8198 Candela
Central Cone Intensity:	8191 Candela
Beam Flux:	19950.6 Lumens
Beam Angle (0-180):	121.2 Degrees
Beam Angle (90-270):	117.3 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	512	5.27
6.00	228	7.91
8.00	128	10.5
10.0	82.0	13.2
12.0	56.9	15.8
14.0	41.8	18.4
16.0	32.0	21.1



ISOFootcandle Plot

Mounting Height - 8 Feet