



Report of Test

LLIA000953-001

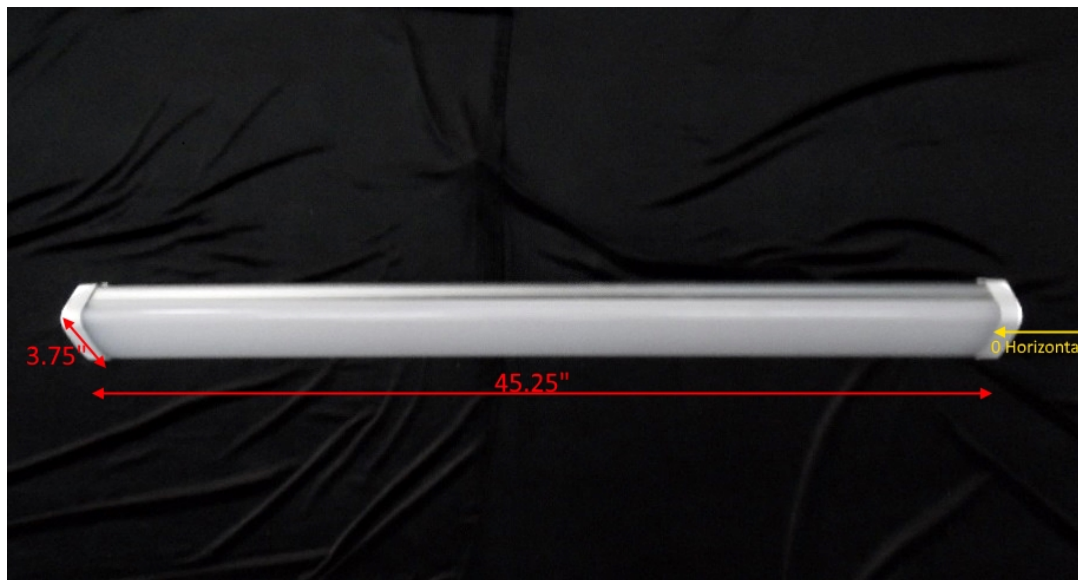
Catalog Number: F-VT4/50W/50K-86

Surface/pendant mounted, extruded aluminum housing, translucent white plastic enclosure.

288 white LEDs, 2 LED boards with 144 LEDs each and white reflective surface film.

One internal LED driver.

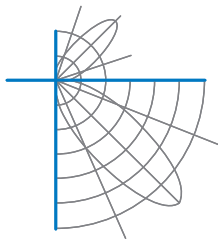
120.0Vac, 60.00Hz, 0.4145A, 49.43W, 0.994PF, 7.0%THD(i)



Performance Summary

Total Light Output	6608 lm
Luminaire Power	49.4 W
Luminous Efficacy	133.8 lm/W

PREPARED FOR : Topaz Lighting Corp, 925 Waverly Avenue, Holtsville, NY 11742, USA



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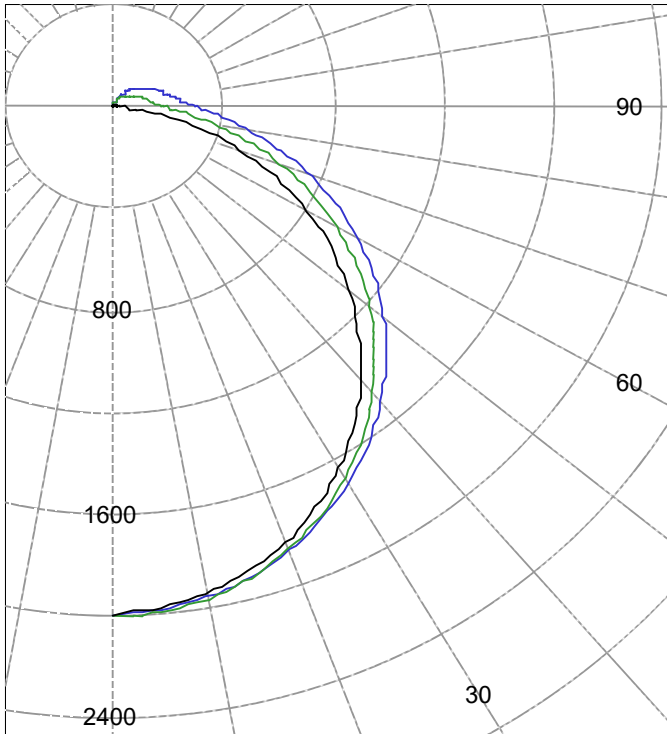
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Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	15964	14493	14339
55.0	14959	13379	13377
65.0	13507	11951	12256
75.0	10736	10058	10889
85.0	4714	8257	10012

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1994	1994	1994	1994	1994	
5.0	1975	1977	1992	1990	1981	188
10.0	1943	1946	1963	1963	1955	
15.0	1892	1896	1916	1919	1914	539
20.0	1823	1828	1852	1860	1859	
25.0	1737	1744	1773	1788	1789	814
30.0	1636	1645	1681	1701	1707	
35.0	1523	1534	1578	1603	1614	983
40.0	1396	1412	1465	1496	1510	
45.0	1259	1282	1344	1379	1398	1029
50.0	1115	1147	1215	1256	1278	
55.0	966	1007	1079	1126	1152	955
60.0	811	862	936	992	1021	
65.0	652	711	790	855	884	773
70.0	490	554	642	716	746	
75.0	328	399	498	579	610	515
80.0	178	257	366	453	485	
85.0	56	144	259	349	382	272
90.0	0	81	189	274	306	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	1541	N / A	23.3
0-40	2524	N / A	38.2
0-60	4508	N / A	68.2
0-90	6068	N / A	91.8
40-90	3544	N / A	53.6
60-90	1560	N / A	23.6
90-180	541	N / A	8.2
0-180	6608	N / A	100.0

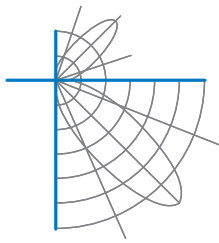
Total Light Output = 6,608 lm

Spacing Criterion: 0-180 1.2
Spacing Criterion: 90-270 1.3

Signed:

Authorized Signatory

Date of test 27-Feb-2018
Date of report 1-Mar-2018



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Surface/pendant mounted, extruded aluminum housing, translucent white plastic enclosure.

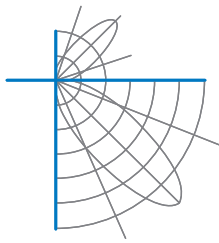
288 white LEDs, 2 LED boards with 144 LEDs each and white reflective surface film.

One internal LED driver.

120.0Vac, 60.00Hz, 0.4145A, 49.43W, 0.994PF, 7.0%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1994	1994	1994	1994	1994
2.5	1982	1984	1999	1997	1987
5.0	1975	1977	1992	1990	1981
7.5	1961	1964	1980	1979	1970
10.0	1943	1946	1963	1963	1955
12.5	1920	1923	1942	1943	1937
15.0	1892	1896	1916	1919	1914
17.5	1859	1864	1886	1892	1888
20.0	1823	1828	1852	1860	1859
22.5	1782	1788	1815	1826	1825
25.0	1737	1744	1773	1788	1789
27.5	1689	1696	1729	1746	1750
30.0	1636	1645	1681	1701	1707
32.5	1581	1591	1631	1654	1662
35.0	1523	1534	1578	1603	1614
37.5	1461	1475	1523	1551	1563
40.0	1396	1412	1465	1496	1510
42.5	1329	1348	1406	1438	1455
45.0	1259	1282	1344	1379	1398
47.5	1188	1215	1281	1318	1339
50.0	1115	1147	1215	1256	1278
52.5	1041	1077	1148	1192	1216
55.0	966	1007	1079	1126	1152
57.5	889	935	1008	1060	1087
60.0	811	862	936	992	1021
62.5	732	787	863	923	952
65.0	652	711	790	855	884
67.5	571	633	715	785	815
70.0	490	554	642	716	746
72.5	408	476	569	647	677
75.0	328	399	498	579	610
77.5	251	326	429	514	545
80.0	178	257	366	453	485
82.5	112	196	308	397	430
85.0	56	144	259	349	382
87.5	16	105	220	308	340
90.0	0	81	189	274	306



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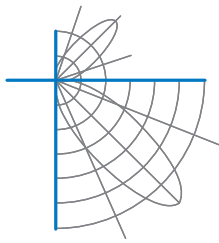
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One internal LED driver.

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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	81	189	274	306
92.5	0	68	168	247	277
95.0	0	61	153	227	255
97.5	1	56	143	212	238
100.0	1	52	135	200	224
102.5	2	49	128	190	213
105.0	2	46	121	181	203
107.5	3	44	115	172	193
110.0	3	42	109	163	183
112.5	4	41	103	154	174
115.0	5	39	98	146	165
117.5	6	38	93	138	156
120.0	7	37	88	131	147
122.5	8	36	84	124	140
125.0	9	35	80	118	132
127.5	10	34	76	111	123
130.0	11	33	73	105	116
132.5	12	33	69	98	109
135.0	13	32	65	92	102
137.5	14	31	61	86	95
140.0	14	30	58	80	88
142.5	15	29	54	74	81
145.0	15	27	50	69	75
147.5	15	26	47	63	69
150.0	15	25	44	58	63
152.5	15	24	40	53	57
155.0	15	22	37	48	52
157.5	14	20	34	44	46
160.0	14	19	31	39	42
162.5	14	18	28	35	37
165.0	14	17	25	31	32
167.5	14	16	21	27	28
170.0	15	16	19	23	24
172.5	15	15	17	21	22
175.0	15	15	15	18	20
177.5	14	15	13	14	16
180.0	13	13	13	13	13



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Coefficients Of Utilization - Zonal Cavity Method

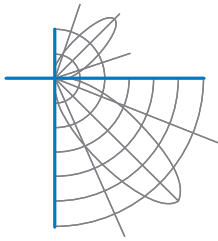
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0		117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1		106	100	96	91	102	97	93	89	92	88	85	86	83	81	81	79	77	74
2		96	87	80	74	92	84	78	72	79	74	69	75	70	66	71	67	64	61
3		87	76	67	61	84	74	66	60	70	63	58	66	60	55	62	57	54	51
4		79	67	58	51	76	65	57	50	62	54	49	58	52	47	55	50	46	43
5		73	60	51	44	70	58	50	43	55	48	42	52	46	41	50	44	40	37
6		67	54	45	38	65	52	44	38	50	42	37	47	41	36	45	39	35	32
7		62	49	40	34	60	47	39	33	45	38	32	43	36	32	41	35	31	29
8		58	44	36	30	56	43	35	29	41	34	29	39	33	28	38	32	27	25
9		54	41	32	27	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10		51	37	29	24	49	37	29	24	35	28	23	34	27	23	32	27	22	21

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	55.4	7.34	7.65
8.0	31.1	9.78	10.19
10.0	19.9	12.23	12.74
12.0	13.8	14.67	15.29
14.0	10.2	17.12	17.84
16.0	7.8	19.57	20.39



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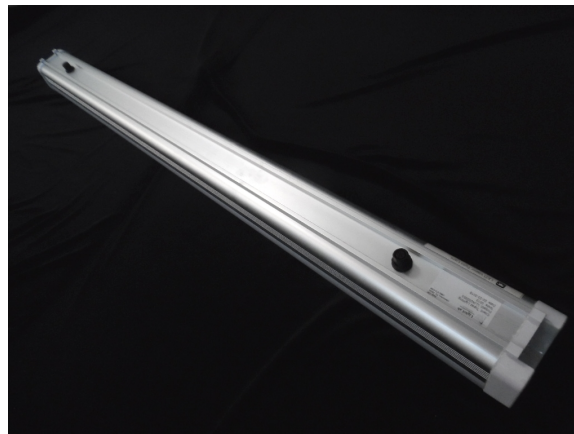
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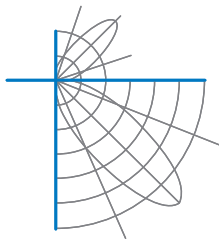
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Test Distance 9.5 m
Test Temperature 25.2 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

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