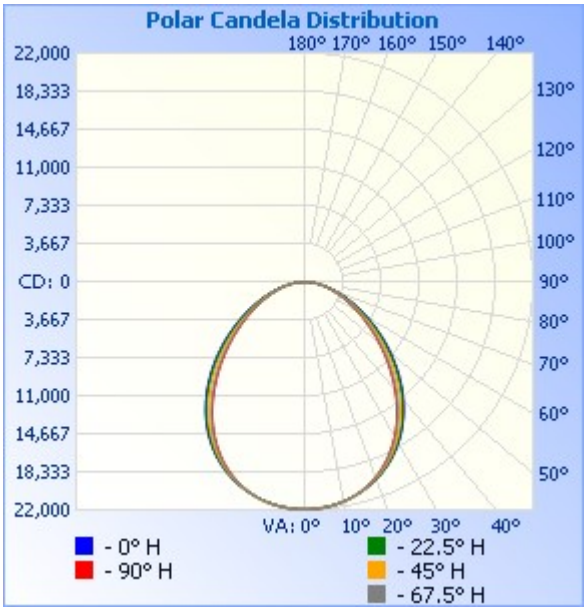
Saylite
Texas Fluorescents
Reinvented



Filename: **THLPFR20X48LB360DMVWH30K**
Manufacturer: Saylite
Luminaire: Highbay mounted, formed white painted steel housing, two optical compartments each with four white circuit boards and flat translucent plastic enclosure.
Luminaire Cat: THLPFR20X48LB360DMVWH30K
Lamp: 1200 white LEDs, eight Seoul Semiconductor SMJD-4244150C-FCX8_R1.0 boards with 150 LEDs each
Ballast Desc: Two Advance XI190C275V054BSG2 LED drivers labeled as 2000mA
Lamp Output: Total luminaire Lumens: 51931.3
Max Candela: 21,949.0 at Horizontal: 67.5°, Vertical: 0.5°
Input Wattage: 362.34
Luminous Opening: Rectangle (L: 47.12", W: 21.5")
Test: LLIA001674-007A-R01
Test Lab: LightLab International Allentown, LLC
Photometry : Type C
Nema Type: 7 X 7

Roadway Summary

Cutoff Classification:		FULL CUTOFF
Distribution:		Type VS
Max Cd, 90 Deg Vert:		0
Max Cd, 80 to <90 Deg:		1,586.0
	Lumens	% Lamp
Downward Street Side:	25,966.0	50%
Downward House Side:	25,966.0	50%
Downward Total:	51,932.1	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	51,932.1	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.1%	50,435.7	151.1	154
Beam (50%):	66.3%	34,408.4	92.6	99.6
Total:	100%	51,916.9		

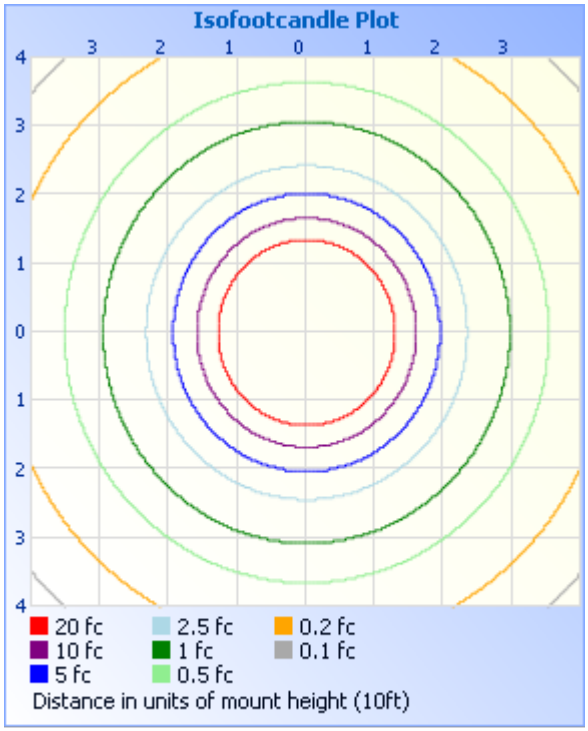
Zonal Lumen Summary

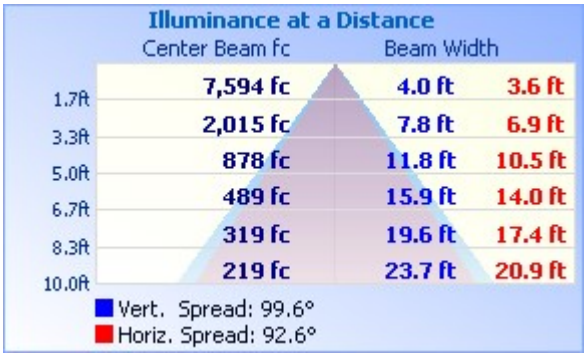
Zone	Lumens	% Luminaire
0-30	16,733.5	32.2%
0-40	26,738.8	51.5%
0-60	43,583.8	83.9%
60-90	8,347.5	16.1%
70-100	3,386.6	6.5%
90-120	0	0%
0-90	51,931.3	100%
90-180	0	0%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2,074.0	4.0%	90-100	0	0%
10-20	5,903.8	11.4%	100-110	0	0%
20-30	8,755.6	16.9%	110-120	0	0%
30-40	10,005.3	19.3%	120-130	0	0%
40-50	9,406.8	18.1%	130-140	0	0%
50-60	7,438.2	14.3%	140-150	0	0%
60-70	4,960.8	9.6%	150-160	0	0%
70-80	2,628.3	5.1%	160-170	0	0%

0-180	51,931.3	100%	80-90	758.4	1.5%	170-180	0	0%





Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2	1.00	.93	.86	.81	.98	.91	.85	.74	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3	.92	.82	.75	.68	.90	.81	.74	.64	.78	.72	.67	.75	.70	.66	.73	.68	.64	.62
4	.85	.73	.65	.59	.83	.72	.64	.56	.70	.63	.58	.67	.62	.57	.65	.60	.56	.54
5	.78	.66	.58	.51	.76	.65	.57	.49	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47
6	.73	.60	.51	.45	.71	.59	.51	.44	.57	.50	.45	.55	.49	.44	.54	.48	.44	.42
7	.67	.54	.46	.40	.66	.54	.46	.39	.52	.45	.40	.51	.44	.39	.49	.44	.39	.37
8	.63	.50	.42	.36	.61	.49	.41	.35	.48	.41	.36	.47	.40	.36	.46	.40	.35	.33
9	.59	.46	.38	.33	.58	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10	.55	.42	.35	.30	.54	.42	.35	.29	.41	.34	.30	.40	.34	.29	.39	.33	.29	.28

Candela Table - Type C

	0	22.5	45	67.5	90
0	21946	21946	21946	21946	21946
0.5	21941	21942	21946	**21949**	21948
1	21933	21935	21943	**21949**	21948
1.5	21924	21926	21938	21947	21946
2	21912	21915	21931	21942	21941
2.5	21899	21902	21922	21935	21934
3	21883	21887	21910	21926	21925
3.5	21866	21870	21896	21914	21913
4	21847	21851	21880	21900	21899

4.5	21825	21830	21862	21884	21882
5	21803	21808	21843	21865	21863
5.5	21780	21786	21820	21841	21839
6	21758	21762	21795	21815	21812
6.5	21732	21736	21767	21785	21783
7	21704	21707	21738	21754	21752
7.5	21674	21677	21706	21720	21718
8	21643	21645	21672	21684	21681
8.5	21609	21610	21636	21645	21642
9	21573	21574	21598	21605	21601
9.5	21536	21536	21558	21562	21558
10	21496	21494	21514	21516	21511
10.5	21454	21452	21469	21469	21462
11	21409	21406	21421	21417	21411
11.5	21362	21359	21371	21364	21357
12	21314	21309	21319	21309	21301
12.5	21263	21258	21264	21250	21242
13	21210	21203	21206	21189	21179
13.5	21155	21147	21148	21126	21115
14	21099	21090	21087	21061	21050
14.5	21039	21029	21023	20991	20979
15	20979	20967	20956	20921	20907
15.5	20914	20900	20886	20845	20830
16	20849	20833	20814	20769	20752
16.5	20779	20761	20739	20687	20669
17	20709	20690	20663	20606	20586
17.5	20635	20614	20582	20520	20497
18	20560	20537	20501	20432	20408
18.5	20484	20458	20418	20342	20316
19	20402	20376	20329	20247	20218
19.5	20320	20292	20240	20151	20119
20	20233	20204	20146	20049	20016
20.5	20146	20115	20052	19947	19911
21	20056	20022	19952	19839	19800
21.5	19964	19928	19852	19732	19688
22	19868	19830	19747	19618	19572
22.5	19772	19731	19642	19504	19454
23	19674	19631	19535	19388	19334
23.5	19570	19525	19421	19265	19208
24	19466	19419	19308	19141	19081
24.5	19357	19307	19188	19012	18947
25	19248	19196	19068	18882	18814
25.5	19133	19078	18943	18747	18674
26	19020	18962	18818	18611	18535
26.5	18900	18840	18687	18471	18388
27	18782	18718	18557	18328	18243
27.5	18661	18593	18424	18185	18094
28	18534	18465	18285	18034	17940
28.5	18407	18334	18146	17883	17784

29	18274	18198	18000	17727	17622
29.5	18142	18063	17856	17571	17462
30	18003	17922	17704	17408	17294
30.5	17867	17782	17555	17247	17128
31	17723	17636	17399	17078	16955
31.5	17582	17491	17244	16912	16784
32	17438	17344	17086	16743	16610
32.5	17287	17189	16922	16566	16429
33	17137	17037	16758	16392	16251
33.5	16981	16877	16589	16211	16065
34	16827	16719	16420	16031	15882
34.5	16666	16556	16246	15848	15692
35	16508	16393	16073	15662	15505
35.5	16342	16224	15894	15475	15313
36	16179	16057	15717	15286	15120
36.5	16014	15888	15539	15098	14928
37	15842	15714	15353	14904	14731
37.5	15672	15540	15170	14712	14535
38	15496	15359	14979	14513	14333
38.5	15322	15182	14793	14318	14136
39	15141	14998	14598	14119	13931
39.5	14964	14817	14410	13922	13733
40	14779	14629	14214	13719	13527
40.5	14597	14445	14021	13520	13328
41	14416	14259	13827	13322	13126
41.5	14227	14069	13628	13117	12921
42	14039	13879	13431	12916	12718
42.5	13850	13684	13230	12710	12511
43	13657	13493	13031	12508	12310
43.5	13468	13295	12829	12305	12103
44	13275	13102	12629	12103	11900
44.5	13078	12903	12425	11897	11696
45	12884	12708	12225	11697	11494
45.5	12691	12513	12026	11497	11294
46	12491	12311	11821	11293	11090
46.5	12296	12114	11621	11093	10891
47	12095	11912	11416	10889	10689
47.5	11899	11714	11216	10692	10493
48	11699	11512	11012	10490	10294
48.5	11501	11314	10813	10294	10098
49	11299	11111	10609	10095	9901
49.5	11102	10913	10412	9901	9709
50	10906	10716	10215	9708	9519
50.5	10703	10515	10015	9513	9327
51	10507	10318	9819	9323	9138
51.5	10306	10117	9621	9129	8948
52	10111	9922	9427	8943	8764
52.5	9911	9723	9232	8753	8577
53	9717	9530	9042	8570	8397

53.5	9518	9332	8848	8383	8213
54	9326	9141	8661	8203	8036
54.5	9135	8950	8475	8025	7860
55	8939	8758	8286	7844	7682
55.5	8749	8568	8104	7670	7510
56	8555	8378	7920	7493	7337
56.5	8369	8192	7740	7322	7169
57	8178	8004	7559	7150	7001
57.5	7994	7821	7384	6983	6837
58	7807	7637	7205	6814	6671
58.5	7625	7457	7033	6651	6512
59	7446	7280	6863	6490	6354
59.5	7263	7100	6693	6328	6197
60	7087	6926	6527	6171	6043
60.5	6907	6750	6359	6013	5888
61	6734	6580	6198	5861	5739
61.5	6558	6407	6034	5706	5589
62	6389	6240	5877	5558	5444
62.5	6217	6072	5717	5407	5297
63	6052	5909	5563	5263	5156
63.5	5889	5749	5413	5121	5018
64	5724	5586	5260	4977	4877
64.5	5563	5430	5112	4839	4741
65	5401	5271	4963	4699	4606
65.5	5246	5118	4820	4564	4473
66	5087	4966	4675	4429	4340
66.5	4935	4816	4536	4297	4213
67	4782	4666	4395	4166	4084
67.5	4634	4522	4260	4039	3958
68	4489	4379	4128	3915	3837
68.5	4341	4237	3993	3788	3715
69	4200	4098	3865	3668	3597
69.5	4057	3959	3734	3546	3477
70	3919	3825	3609	3428	3362
70.5	3780	3690	3482	3310	3248
71	3648	3560	3362	3196	3136
71.5	3512	3429	3239	3080	3024
72	3384	3303	3122	2970	2916
72.5	3257	3180	3007	2862	2811
73	3131	3056	2891	2754	2704
73.5	3008	2937	2780	2648	2601
74	2884	2816	2667	2543	2498
74.5	2766	2702	2560	2441	2399
75	2647	2585	2451	2339	2299
75.5	2532	2473	2347	2240	2203
76	2417	2362	2242	2142	2106
76.5	2307	2254	2142	2047	2013
77	2200	2150	2044	1954	1922
77.5	2091	2044	1945	1861	1831

78	1987	1943	1850	1771	1742
78.5	1884	1841	1754	1681	1654
79	1783	1744	1663	1594	1569
79.5	1683	1646	1571	1508	1483
80	1586	1552	1483	1423	1400
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81	1398	1368	1310	1258	1237
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82	1218	1193	1144	1100	1082
82.5	1131	1108	1063	1023	1006
83	1044	1023	983	945	931
83.5	962	942	906	872	858
84	878	860	828	797	785
84.5	798	782	753	726	715
85	717	703	677	654	643
85.5	640	628	605	584	575
86	564	553	534	516	508
86.5	487	478	462	446	438
87	414	405	392	379	371
87.5	338	332	321	309	302
88	265	260	251	241	235
88.5	191	187	179	171	166
89	118	115	108	102	98
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179	0	0	0	0	0
179.5	0	0	0	0	0
180	0	0	0	0	0

Luminaire Report Summary

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IESNA:LM-63-2002
[TEST] LLIA001674-007A-R01
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 6/6/2022
[MANUFAC] Saylite
[LUMCAT] THLPFR20X48LB360DMVWH30K
[LUMINAIRE] Highbay mounted, formed white painted steel housing, two optical
[MORE] compartments each with four white circuit boards and flat translucent
plastic
[MORE] enclosure.
[LAMP] 1200 white LEDs, eight Seoul Semiconductor SMJD-4244150C-FCX8_R1.0
[MORE] boards with 150 LEDs each
[BALLAST] Two Advance XI190C275V054BSG2 LED drivers labeled as 2000mA
[OTHER] 119.9Vac, 60.00Hz, 3.027A, 362.3W, 0.998PF, 4.1%THD(i)
[OTHER] This test was performed using the absolute method of photometry.
[MORE] Lamp lumens value was set to -1

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 361, HORIZONTAL ANGLES: 5
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1
```


Reported data calculated from manufacturer's data file, based on IES recommended methods.