



Filename: THLPFR20X48LB250DMVWH30K

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: THLPFR20X48LB250DMVWH30K

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 1350mA

Lamp Output: Total luminaire Lumens: 34851.9

Max Candela: 14,378.0 at Horizontal: 67.5°, Vertical: 0.5°

Input Wattage: 252.52

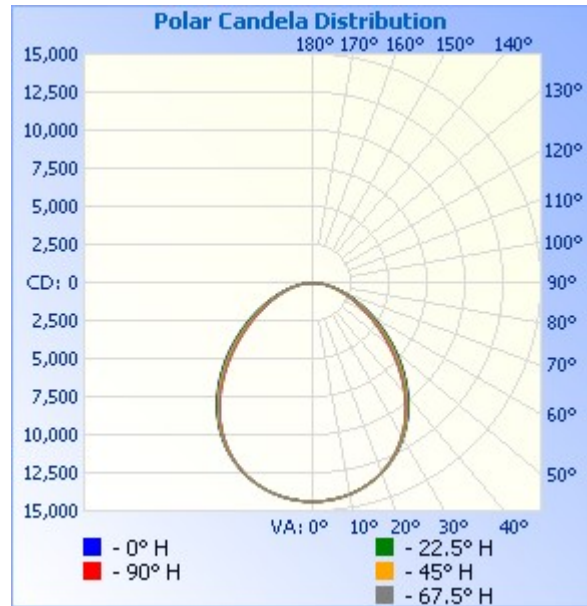
Luminous Opening: Rectangle (L: 47.12", W: 21.5")

Test: LLIA001674-006-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:	1,062.0	
	Lumens	% Lamp
Downward Street Side:	17,426.2	50%
Downward House Side:	17,426.2	50%
Downward Total:	34,852.5	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	34,852.5	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.3%	33,897.7	151.6	154.5
Beam (50%):	67.6%	23,543.3	96.1	100.2
Total:	100%	34,842.2		

Zonal Lumen Summary

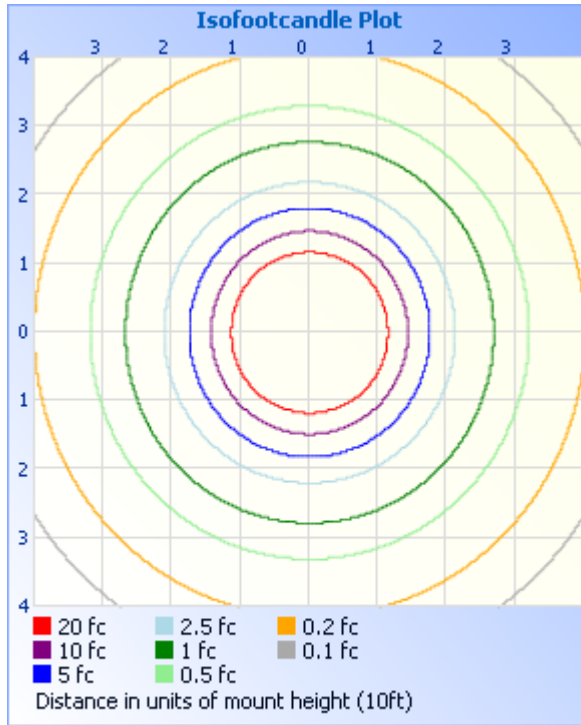
Zone	Lumens	% Luminaire
0-30	11,035.0	31.7%
0-40	17,742.8	50.9%
0-60	29,201.0	83.8%
60-90	5,651.0	16.2%
70-100	2,281.1	6.5%
90-120	0	0%
0-90	34,851.9	100%
90-180	0	0%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,359.4	3.9%	90-100	0	0%
10-20	3,879.8	11.1%	100-110	0	0%
20-30	5,795.8	16.6%	110-120	0	0%
30-40	6,707.8	19.2%	120-130	0	0%
40-50	6,386.1	18.3%	130-140	0	0%
50-60	5,072.1	14.6%	140-150	0	0%
60-70	3,369.8	9.7%	150-160	0	0%
70-80	1,773.6	5.1%	160-170	0	0%

0-180 34,851.9 100%

80-90 507.6 1.5% 170-180 0 0%



	Center Beam fc	Beam Width	
1.7ft	4,975 fc	4.1 ft	3.8 ft
3.3ft	1,320 fc	7.9 ft	7.3 ft
5.0ft	575 fc	12.0 ft	11.1 ft
6.7ft	320 fc	16.0 ft	14.9 ft
8.3ft	209 fc	19.9 ft	18.5 ft
10.0ft	144 fc	23.9 ft	22.2 ft

■ Vert. Spread: 100.2°
■ Horiz. Spread: 96.1°

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	.87	.85
2	1.00	.93	.86	.81	.98	.91	.85	.74	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3	.92	.82	.74	.68	.90	.81	.73	.64	.78	.71	.66	.75	.70	.65	.72	.68	.64	.62
4	.85	.73	.65	.59	.82	.72	.64	.55	.69	.63	.57	.67	.61	.57	.65	.60	.56	.54
5	.78	.66	.57	.51	.76	.65	.57	.49	.63	.56	.50	.61	.54	.50	.59	.53	.49	.47
6	.72	.60	.51	.45	.70	.59	.50	.43	.57	.50	.44	.55	.49	.44	.54	.48	.43	.41
7	.67	.54	.46	.40	.66	.53	.45	.39	.52	.45	.39	.50	.44	.39	.49	.43	.39	.37
8	.63	.50	.41	.36	.61	.49	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.35	.33
9	.59	.46	.38	.32	.57	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10	.55	.42	.35	.29	.54	.42	.34	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27

Candela Table - Type C

	0	22.5	45	67.5	90
0	14377	14377	14377	14377	14377
0.5	14375	14374	14377	14378	14377
1	14372	14370	14375	14377	14376
1.5	14367	14364	14372	14376	14373
2	14361	14357	14368	14372	14369
2.5	14354	14349	14363	14368	14364
3	14345	14339	14356	14362	14357
3.5	14336	14329	14347	14355	14349
4	14324	14316	14337	14346	14340

4.5	14312	14303	14326	14335	14329
5	14299	14289	14314	14324	14317
5.5	14285	14274	14300	14309	14303
6	14270	14260	14284	14293	14288
6.5	14253	14242	14267	14275	14271
7	14236	14225	14250	14257	14253
7.5	14216	14205	14229	14236	14233
8	14195	14185	14208	14215	14211
8.5	14173	14163	14185	14191	14189
9	14150	14139	14162	14167	14164
9.5	14126	14115	14137	14141	14138
10	14100	14089	14110	14114	14111
10.5	14073	14062	14083	14085	14083
11	14044	14032	14053	14054	14053
11.5	14014	14002	14022	14023	14021
12	13982	13971	13990	13990	13989
12.5	13950	13937	13956	13954	13954
13	13915	13902	13920	13919	13917
13.5	13879	13867	13884	13881	13880
14	13844	13830	13847	13842	13842
14.5	13804	13792	13807	13801	13801
15	13766	13752	13766	13759	13758
15.5	13723	13710	13723	13714	13714
16	13682	13667	13680	13669	13670
16.5	13636	13622	13633	13622	13621
17	13591	13575	13586	13574	13573
17.5	13542	13527	13537	13523	13522
18	13493	13478	13487	13471	13471
18.5	13443	13428	13435	13418	13418
19	13391	13375	13381	13363	13361
19.5	13339	13322	13326	13306	13305
20	13283	13265	13269	13247	13246
20.5	13226	13209	13211	13187	13186
21	13167	13149	13151	13124	13123
21.5	13108	13090	13089	13062	13060
22	13045	13027	13025	12995	12993
22.5	12983	12964	12961	12928	12925
23	12919	12900	12895	12861	12857
23.5	12852	12833	12826	12789	12785
24	12785	12765	12757	12717	12711
24.5	12714	12694	12684	12641	12635
25	12644	12623	12611	12566	12559
25.5	12569	12548	12535	12487	12479
26	12496	12474	12459	12407	12399
26.5	12418	12396	12379	12325	12315
27	12342	12319	12299	12242	12231
27.5	12263	12239	12218	12157	12146
28	12180	12156	12132	12069	12056
28.5	12098	12074	12047	11981	11966

29	12011	11987	11958	11888	11872
29.5	11927	11901	11869	11796	11779
30	11837	11811	11777	11700	11681
30.5	11748	11721	11685	11604	11584
31	11655	11628	11589	11505	11482
31.5	11563	11535	11494	11405	11381
32	11469	11441	11397	11305	11280
32.5	11373	11342	11296	11199	11171
33	11274	11244	11195	11094	11065
33.5	11173	11142	11090	10984	10954
34	11072	11041	10985	10876	10842
34.5	10969	10937	10878	10764	10730
35	10866	10832	10771	10651	10614
35.5	10758	10725	10660	10536	10497
36	10652	10618	10549	10420	10379
36.5	10545	10509	10437	10304	10261
37	10434	10397	10321	10183	10137
37.5	10324	10285	10206	10064	10015
38	10209	10170	10086	9940	9889
38.5	10096	10056	9969	9817	9764
39	9979	9937	9846	9691	9635
39.5	9863	9821	9726	9566	9507
40	9744	9700	9602	9437	9375
40.5	9625	9582	9479	9309	9245
41	9506	9462	9356	9181	9113
41.5	9385	9339	9227	9049	8981
42	9263	9216	9101	8918	8847
42.5	9138	9090	8972	8785	8709
43	9015	8967	8843	8652	8575
43.5	8889	8839	8713	8517	8437
44	8765	8714	8584	8383	8301
44.5	8636	8585	8451	8247	8162
45	8509	8458	8320	8112	8026
45.5	8384	8332	8191	7979	7890
46	8254	8201	8056	7841	7750
46.5	8126	8072	7925	7706	7613
47	7995	7940	7790	7568	7474
47.5	7868	7812	7658	7433	7338
48	7736	7679	7523	7295	7198
48.5	7608	7551	7391	7161	7063
49	7475	7418	7257	7023	6924
49.5	7347	7288	7124	6889	6789
50	7218	7159	6992	6757	6655
50.5	7087	7027	6859	6620	6518
51	6958	6898	6728	6488	6386
51.5	6827	6766	6594	6354	6250
52	6699	6638	6463	6223	6119
52.5	6568	6507	6332	6090	5986
53	6441	6379	6203	5961	5857

53.5	6311	6249	6071	5830	5726
54	6185	6123	5944	5703	5597
54.5	6059	5997	5818	5578	5473
55	5930	5869	5689	5450	5345
55.5	5806	5744	5564	5326	5222
56	5679	5618	5438	5201	5098
56.5	5556	5496	5315	5080	4977
57	5430	5370	5192	4958	4855
57.5	5310	5250	5070	4839	4738
58	5186	5127	4948	4720	4619
58.5	5067	5008	4830	4603	4505
59	4949	4890	4713	4489	4392
59.5	4828	4770	4595	4374	4278
60	4712	4655	4480	4262	4168
60.5	4594	4537	4365	4150	4057
61	4479	4423	4253	4042	3951
61.5	4363	4308	4141	3933	3843
62	4252	4197	4032	3827	3739
62.5	4138	4084	3921	3721	3633
63	4028	3976	3815	3618	3534
63.5	3920	3868	3710	3518	3435
64	3812	3760	3605	3417	3337
64.5	3706	3655	3503	3319	3240
65	3599	3549	3400	3220	3144
65.5	3496	3447	3301	3125	3050
66	3391	3343	3201	3030	2958
66.5	3290	3243	3104	2938	2867
67	3188	3143	3008	2846	2776
67.5	3091	3046	2914	2757	2689
68	2994	2950	2822	2670	2604
68.5	2897	2854	2730	2582	2520
69	2803	2761	2640	2498	2436
69.5	2708	2668	2551	2413	2353
70	2617	2578	2464	2331	2274
70.5	2525	2487	2377	2248	2193
71	2437	2399	2293	2170	2116
71.5	2347	2311	2210	2089	2039
72	2261	2226	2128	2013	1964
72.5	2177	2143	2049	1937	1892
73	2093	2059	1969	1863	1819
73.5	2011	1979	1892	1791	1748
74	1928	1898	1815	1719	1677
74.5	1849	1820	1741	1648	1609
75	1771	1742	1667	1578	1541
75.5	1694	1667	1595	1510	1475
76	1617	1591	1523	1443	1409
76.5	1543	1519	1454	1378	1346
77	1472	1448	1387	1315	1284
77.5	1400	1377	1319	1251	1222

78	1330	1308	1254	1190	1163
78.5	1260	1240	1189	1129	1103
79	1193	1174	1126	1070	1046
79.5	1126	1108	1064	1012	989
80	1062	1045	1004	955	933
80.5	998	981	943	898	878
81	936	921	886	843	824
81.5	875	861	829	790	772
82	815	802	773	736	720
82.5	757	745	718	685	669
83	699	688	664	632	619
83.5	644	633	612	583	570
84	588	578	559	532	520
84.5	534	525	508	484	473
85	480	472	457	436	426
85.5	428	421	408	389	381
86	377	371	360	344	335
86.5	325	320	311	296	287
87	276	271	264	249	241
87.5	225	222	214	201	194
88	176	173	166	153	147
88.5	126	123	116	104	100
89	77	75	68	61	58
89.5	30	29	28	27	26
90	0	0	0	0	0
90.5	0	0	0	0	0
91	0	0	0	0	0
91.5	0	0	0	0	0
92	0	0	0	0	0
92.5	0	0	0	0	0
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98.5	0	0	0	0	0
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100	0	0	0	0	0
100.5	0	0	0	0	0
101	0	0	0	0	0
101.5	0	0	0	0	0
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102.5	0	0	0	0	0
103	0	0	0	0	0
103.5	0	0	0	0	0
104	0	0	0	0	0
104.5	0	0	0	0	0
105	0	0	0	0	0
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120.5	0	0	0	0	0
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122.5	0	0	0	0	0
123	0	0	0	0	0
123.5	0	0	0	0	0
124	0	0	0	0	0
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125	0	0	0	0	0
125.5	0	0	0	0	0
126	0	0	0	0	0
126.5	0	0	0	0	0

127	0	0	0	0	0
127.5	0	0	0	0	0
128	0	0	0	0	0
128.5	0	0	0	0	0
129	0	0	0	0	0
129.5	0	0	0	0	0
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150	0	0	0	0	0
150.5	0	0	0	0	0
151	0	0	0	0	0

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164.5	0	0	0	0	0
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165.5	0	0	0	0	0
166	0	0	0	0	0
166.5	0	0	0	0	0
167	0	0	0	0	0
167.5	0	0	0	0	0
168	0	0	0	0	0
168.5	0	0	0	0	0
169	0	0	0	0	0
169.5	0	0	0	0	0
170	0	0	0	0	0
170.5	0	0	0	0	0
171	0	0	0	0	0
171.5	0	0	0	0	0
172	0	0	0	0	0
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175.5	0	0	0	0	0

176	0	0	0	0	0
176.5	0	0	0	0	0
177	0	0	0	0	0
177.5	0	0	0	0	0
178	0	0	0	0	0
178.5	0	0	0	0	0
179	0	0	0	0	0
179.5	0	0	0	0	0
180	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002

[TEST] LLIA001674-006-R01

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 6/6/2022

[MANUFAC] Saylite

[LUMCAT] THLPFR20X48LB250DMVWH30K

[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 1350mA

[OTHER] 120.0Vac, 60.00Hz, 2.109A, 252.5W, 0.998PF, 4.4%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

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