



Filename: THLPFR20X48LB210DMVWH30K

Manufacturer: Saylite

Luminaire: Highbay mounted, formed white painted steel housing, two optical compartments each with two white circuit boards and flat translucent plastic enclosure.

Luminaire Cat: THLPFR20X48LB210DMVWH30K

Lamp: 600 white LEDs, four Seoul Semiconductor SMJD-4244150C-FCX8_R1.0 boards with 150 LEDs each

Ballast Desc: One Advance XI190C275V054BSG2 LED driver labeled as 2300mA

Lamp Output: Total luminaire Lumens: 30224.5

Max Candela: 12,445.0 at Horizontal: 67.5°, Vertical: 0.5°

Input Wattage: 209.09

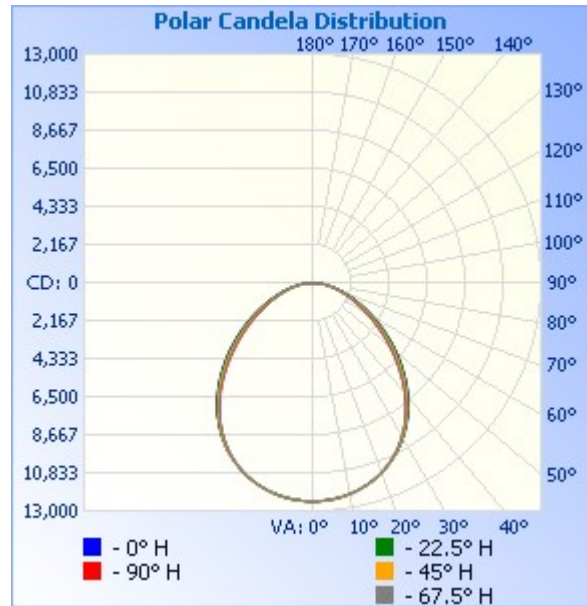
Luminous Opening: Rectangle (L: 47.12", W: 21.5")

Test: LLIA001674-005A-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:	922.0	
	Lumens	% Lamp
Downward Street Side:	15,112.4	50%
Downward House Side:	15,112.4	50%
Downward Total:	30,224.8	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	30,224.8	100%

Flood Summary

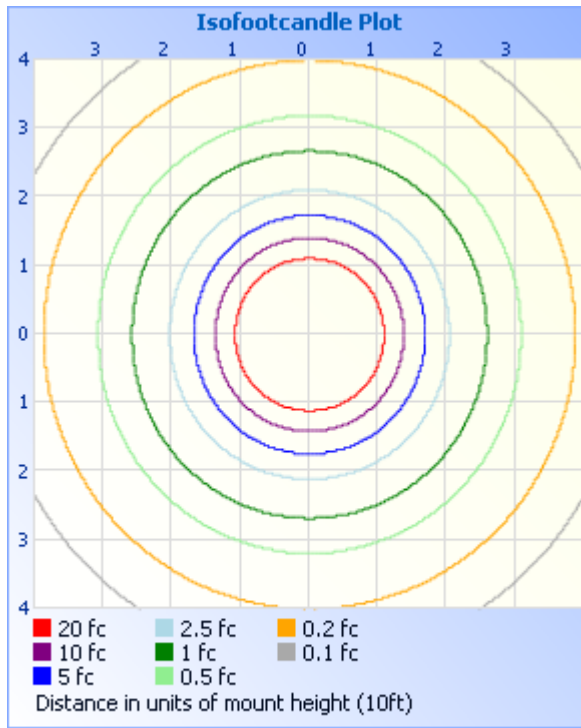
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.3%	29,394.3	151.7	154.5
Beam (50%):	67.5%	20,409.2	96.2	100.3
Total:	100%	30,216.0		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	9,559.9	31.6%
0-40	15,377.1	50.9%
0-60	25,318.2	83.8%
60-90	4,906.3	16.2%
70-100	1,982.0	6.6%
90-120	0	0%
0-90	30,224.5	100%
90-180	0	0%
0-180	30,224.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,176.8	3.9%	90-100	0	0%
10-20	3,360.2	11.1%	100-110	0	0%
20-30	5,022.9	16.6%	110-120	0	0%
30-40	5,817.2	19.2%	120-130	0	0%
40-50	5,540.3	18.3%	130-140	0	0%
50-60	4,400.8	14.6%	140-150	0	0%
60-70	2,924.3	9.7%	150-160	0	0%
70-80	1,539.7	5.1%	160-170	0	0%
80-90	442.3	1.5%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	4,306 fc	4.1 ft	3.8 ft
3.3R	1,143 fc	7.9 ft	7.4 ft
5.0R	498 fc	12.0 ft	11.2 ft
6.7R	277 fc	16.1 ft	14.9 ft
8.3R	181 fc	19.9 ft	18.5 ft
10.0R	124 fc	24.0 ft	22.3 ft

■ Vert. Spread: 100.3°
■ Horiz. Spread: 96.2°

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	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			1.00			
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85			.85			
2	1.00	.93	.86	.81	.98	.91	.85	.74	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73			.73			
3	.92	.82	.74	.68	.90	.80	.73	.64	.78	.71	.66	.75	.70	.65	.72	.68	.64	.62			.62			
4	.85	.73	.65	.59	.82	.72	.64	.55	.69	.63	.57	.67	.61	.57	.65	.60	.56	.54			.54			
5	.78	.66	.57	.51	.76	.65	.57	.49	.63	.56	.50	.61	.54	.50	.59	.53	.49	.47			.47			
6	.72	.60	.51	.45	.70	.59	.50	.43	.57	.50	.44	.55	.49	.44	.54	.48	.43	.41			.41			
7	.67	.54	.46	.40	.66	.53	.45	.39	.52	.45	.39	.50	.44	.39	.49	.43	.39	.37			.37			
8	.63	.50	.41	.36	.61	.49	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.35	.33			.33			
9	.59	.46	.38	.32	.57	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30			.30			
10	.55	.42	.35	.29	.54	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27			.27			

Candela Table - Type C

	0	22.5	45	67.5	90
0	12444	12444	12444	12444	12444
0.5	12442	12441	12444	12445	12444
1	12439	12438	12443	12445	12443
1.5	12435	12433	12440	12443	12441
2	12431	12427	12437	12441	12438
2.5	12424	12420	12432	12437	12433
3	12417	12412	12426	12432	12428
3.5	12408	12403	12419	12426	12421
4	12399	12392	12411	12418	12413
4.5	12388	12380	12401	12409	12405

5	12376	12368	12391	12399	12395
5.5	12364	12356	12379	12387	12383
6	12351	12343	12366	12374	12370
6.5	12337	12328	12351	12358	12355
7	12322	12313	12336	12342	12340
7.5	12305	12296	12318	12325	12323
8	12287	12278	12301	12307	12305
8.5	12268	12260	12281	12287	12285
9	12248	12240	12261	12266	12265
9.5	12227	12219	12240	12245	12244
10	12204	12196	12217	12221	12220
10.5	12181	12172	12193	12197	12197
11	12156	12147	12168	12171	12171
11.5	12130	12121	12141	12144	12144
12	12103	12094	12114	12115	12116
12.5	12075	12066	12085	12086	12087
13	12044	12036	12054	12055	12056
13.5	12014	12005	12024	12023	12024
14	11983	11974	11992	11990	11992
14.5	11949	11940	11958	11955	11956
15	11915	11906	11922	11919	11921
15.5	11879	11870	11885	11881	11884
16	11843	11832	11848	11842	11845
16.5	11804	11793	11808	11802	11805
17	11764	11754	11768	11760	11763
17.5	11723	11712	11725	11717	11720
18	11681	11670	11683	11673	11676
18.5	11638	11627	11639	11627	11630
19	11593	11581	11593	11580	11583
19.5	11547	11535	11546	11531	11535
20	11499	11486	11496	11480	11483
20.5	11450	11438	11446	11429	11432
21	11399	11386	11394	11376	11378
21.5	11348	11335	11342	11322	11324
22	11294	11281	11287	11264	11266
22.5	11240	11227	11231	11207	11209
23	11185	11172	11175	11149	11150
23.5	11127	11113	11115	11088	11087
24	11069	11055	11056	11026	11025
24.5	11008	10994	10994	10961	10959
25	10947	10932	10930	10896	10894
25.5	10883	10868	10865	10828	10825
26	10819	10804	10799	10759	10756
26.5	10752	10737	10730	10688	10684
27	10685	10670	10662	10617	10612
27.5	10617	10602	10592	10544	10538
28	10547	10531	10519	10469	10462
28.5	10476	10459	10445	10392	10384
29	10401	10384	10368	10312	10303

29.5	10327	10310	10292	10233	10222
30	10250	10232	10212	10149	10138
30.5	10173	10155	10133	10067	10054
31	10093	10074	10050	9981	9966
31.5	10014	9994	9968	9895	9879
32	9933	9913	9884	9808	9790
32.5	9849	9828	9797	9717	9697
33	9764	9743	9710	9626	9604
33.5	9677	9656	9619	9531	9510
34	9589	9567	9529	9437	9412
34.5	9500	9478	9436	9341	9315
35	9411	9387	9343	9243	9215
35.5	9318	9294	9248	9143	9113
36	9226	9202	9152	9043	9011
36.5	9134	9108	9055	8943	8909
37	9037	9011	8955	8837	8801
37.5	8942	8915	8855	8734	8696
38	8843	8815	8751	8627	8586
38.5	8744	8716	8649	8521	8477
39	8644	8614	8545	8411	8365
39.5	8543	8513	8440	8303	8255
40	8440	8409	8332	8190	8140
40.5	8338	8306	8226	8080	8028
41	8236	8203	8118	7969	7914
41.5	8129	8096	8008	7854	7796
42	8025	7990	7899	7741	7681
42.5	7916	7881	7786	7624	7562
43	7810	7774	7676	7509	7445
43.5	7701	7664	7562	7393	7325
44	7592	7556	7450	7277	7208
44.5	7483	7444	7335	7158	7086
45	7373	7333	7222	7042	6968
45.5	7264	7224	7109	6925	6850
46	7151	7111	6993	6806	6728
46.5	7041	7000	6879	6688	6609
47	6928	6886	6762	6569	6489
47.5	6817	6775	6647	6451	6369
48	6703	6660	6530	6332	6248
48.5	6592	6548	6416	6215	6131
49	6477	6433	6298	6096	6010
49.5	6366	6321	6184	5979	5893
50	6255	6209	6069	5864	5777
50.5	6140	6095	5954	5746	5658
51	6029	5983	5840	5631	5543
51.5	5915	5869	5723	5514	5425
52	5804	5758	5611	5401	5311
52.5	5692	5644	5496	5285	5195
53	5581	5534	5384	5174	5083
53.5	5468	5421	5270	5060	4970

54	5359	5311	5160	4950	4859
54.5	5250	5203	5050	4841	4750
55	5139	5091	4939	4730	4639
55.5	5031	4984	4830	4623	4532
56	4921	4874	4720	4514	4424
56.5	4815	4768	4613	4409	4319
57	4707	4659	4506	4302	4214
57.5	4602	4554	4401	4200	4112
58	4495	4448	4295	4096	4010
58.5	4391	4345	4192	3995	3910
59	4289	4243	4091	3896	3811
59.5	4185	4139	3988	3796	3713
60	4084	4038	3889	3699	3618
60.5	3982	3937	3788	3602	3521
61	3883	3838	3692	3508	3429
61.5	3782	3738	3593	3413	3335
62	3685	3642	3499	3321	3246
62.5	3587	3544	3403	3229	3154
63	3492	3450	3311	3140	3068
63.5	3399	3357	3221	3053	2983
64	3305	3263	3129	2965	2896
64.5	3213	3172	3040	2880	2813
65	3120	3080	2951	2795	2729
65.5	3031	2991	2865	2712	2648
66	2940	2902	2778	2631	2567
66.5	2853	2815	2695	2550	2489
67	2764	2728	2610	2470	2410
67.5	2680	2644	2529	2393	2335
68	2596	2561	2450	2318	2261
68.5	2512	2478	2369	2241	2186
69	2431	2397	2292	2168	2114
69.5	2348	2316	2214	2094	2042
70	2270	2238	2139	2023	1973
70.5	2189	2158	2063	1952	1904
71	2113	2083	1991	1883	1836
71.5	2035	2006	1917	1814	1769
72	1961	1933	1847	1747	1704
72.5	1888	1861	1779	1682	1640
73	1815	1788	1709	1617	1578
73.5	1744	1718	1642	1555	1517
74	1673	1648	1576	1491	1455
74.5	1604	1580	1511	1431	1396
75	1536	1513	1447	1370	1337
75.5	1470	1448	1385	1312	1281
76	1403	1382	1322	1253	1223
76.5	1340	1319	1263	1197	1168
77	1277	1258	1204	1142	1115
77.5	1215	1196	1145	1087	1061
78	1154	1137	1089	1034	1010

78.5	1094	1077	1033	981	958
79	1036	1020	978	930	908
79.5	978	963	924	879	859
80	922	908	872	829	810
80.5	866	853	820	780	762
81	812	801	770	733	716
81.5	760	749	721	686	670
82	708	698	672	640	626
82.5	658	648	624	596	582
83	607	599	578	551	538
83.5	559	551	532	507	496
84	511	504	486	464	454
84.5	464	458	443	422	413
85	417	412	398	380	371
85.5	373	368	356	340	332
86	329	324	314	300	292
86.5	284	280	272	260	252
87	241	238	231	220	213
87.5	198	195	189	179	172
88	155	153	147	138	132
88.5	112	111	104	95	90
89	70	69	61	54	50
89.5	27	26	21	18	16
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
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97.5	0	0	0	0	0
98	0	0	0	0	0
98.5	0	0	0	0	0
99	0	0	0	0	0
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126.5	0	0	0	0	0
127	0	0	0	0	0

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129	0	0	0	0	0
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153.5	0	0	0	0	0
154	0	0	0	0	0
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159	0	0	0	0	0
159.5	0	0	0	0	0
160	0	0	0	0	0
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166.5	0	0	0	0	0
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170	0	0	0	0	0
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175.5	0	0	0	0	0
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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] LLIA001674-005A-R01
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 6/6/2022
 [MANUFAC] Saylite
 [LUMCAT] THLPFR20X48LB210DMVWH30K
 [LUMINAIRE] Highbay mounted, formed white painted steel housing, two optical
 [MORE] compartments each with two white circuit boards and flat translucent
 plastic
 [MORE] enclosure.
 [LAMP] 600 white LEDs, four Seoul Semiconductor SMJD-4244150C-FCX8_R1.0
 [MORE] boards with 150 LEDs each
 [BALLAST] One Advance XI190C275V054BSG2 LED driver labeled as 2300mA
 [OTHER] 120.0Vac, 60.00Hz, 1.748A, 209.1W, 0.997PF, 4.0%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.