



Filename: THLPFR20X24LB125DMVWH30K

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: THLPFR20X24LB125DMVWH30K

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 1400mA

Lamp Output: Total luminaire Lumens: 18007.5

Max Candela: 7,699.0 at Horizontal: 0°, Vertical: 0°

Input Wattage: 125.9

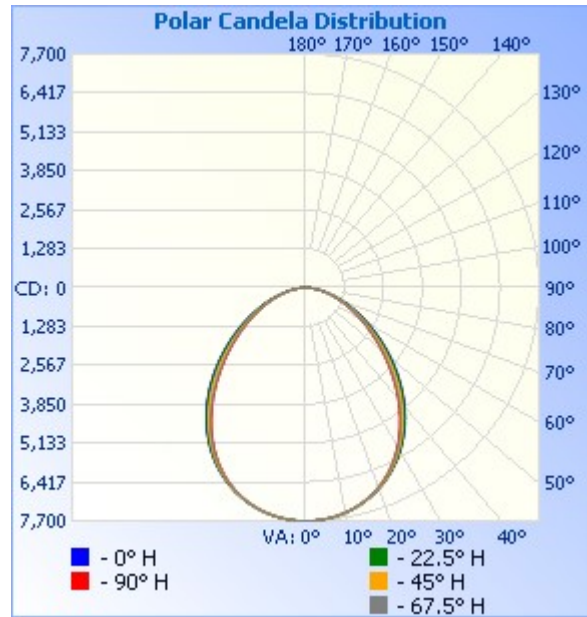
Luminous Opening: Rectangle (L: 23.12", W: 21.5")

Test: LLIA001674-002-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:	540.0	
	Lumens	% Lamp
Downward Street Side:	9,003.9	50%
Downward House Side:	9,003.9	50%
Downward Total:	18,007.8	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	18,007.8	100%

Flood Summary

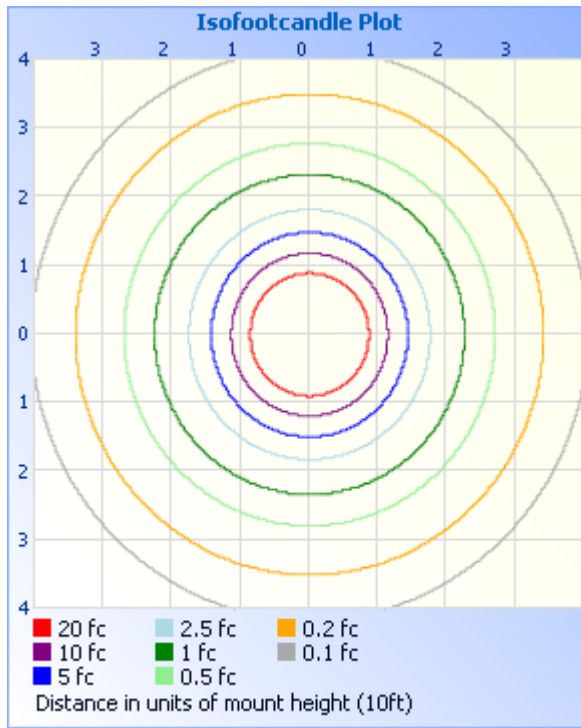
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.1%	17,480.3	150.9	153.4
Beam (50%):	65.7%	11,833.1	92.4	98.1
Total:	100%	18,002.4		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	5,847.9	32.5%
0-40	9,322.4	51.8%
0-60	15,135.7	84.1%
60-90	2,871.8	15.9%
70-100	1,166.0	6.5%
90-120	0	0%
0-90	18,007.5	100%
90-180	0	0%
0-180	18,007.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	727.2	4.0%	90-100	0	0%
10-20	2,066.5	11.5%	100-110	0	0%
20-30	3,054.1	17.0%	110-120	0	0%
30-40	3,474.5	19.3%	120-130	0	0%
40-50	3,251.6	18.1%	130-140	0	0%
50-60	2,561.7	14.2%	140-150	0	0%
60-70	1,705.7	9.5%	150-160	0	0%
70-80	904.1	5.0%	160-170	0	0%
80-90	261.9	1.5%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	2,664 fc	3.9 ft	3.5 ft
3.3R	707 fc	7.6 ft	6.9 ft
5.0R	308 fc	11.5 ft	10.4 ft
6.7R	172 fc	15.4 ft	14.0 ft
8.3R	112 fc	19.1 ft	17.3 ft
10.0R	77.0 fc	23.0 ft	20.8 ft

■ Vert. Spread: 98.1°
■ Horiz. Spread: 92.4°

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	.93	.90	.91	.89	.88	.86
2	1.00	.93	.86	.81	.98	.91	.85	.74	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3	.92	.82	.75	.69	.90	.81	.74	.64	.78	.72	.67	.75	.70	.66	.73	.68	.65	.62
4	.85	.74	.65	.59	.83	.72	.65	.56	.70	.63	.58	.68	.62	.57	.65	.60	.56	.54
5	.78	.66	.58	.51	.76	.65	.57	.49	.63	.56	.51	.61	.55	.50	.59	.54	.49	.47
6	.73	.60	.51	.45	.71	.59	.51	.44	.57	.50	.45	.56	.49	.44	.54	.48	.44	.42
7	.68	.55	.46	.40	.66	.54	.46	.39	.52	.45	.40	.51	.44	.40	.50	.44	.39	.37
8	.63	.50	.42	.36	.62	.49	.42	.35	.48	.41	.36	.47	.40	.36	.46	.40	.35	.34
9	.59	.46	.38	.33	.58	.45	.38	.32	.44	.37	.33	.43	.37	.32	.42	.36	.32	.30
10	.55	.43	.35	.30	.54	.42	.35	.29	.41	.34	.30	.40	.34	.30	.39	.34	.29	.28

Candela Table - Type C

	0	22.5	45	67.5	90
0	7699	7699	7699	7699	7699
0.5	7698	7698	7699	7698	7697
1	7697	7697	7698	7696	7695
1.5	7696	7696	7696	7693	7693
2	7693	7693	7693	7690	7689
2.5	7690	7690	7690	7686	7685
3	7686	7686	7686	7681	7680
3.5	7681	7681	7681	7675	7674
4	7675	7675	7676	7668	7667
4.5	7669	7669	7669	7661	7659

5	7662	7662	7662	7653	7651
5.5	7654	7654	7654	7644	7642
6	7645	7645	7645	7635	7633
6.5	7635	7635	7634	7625	7623
7	7625	7624	7624	7614	7612
7.5	7613	7613	7612	7602	7600
8	7601	7601	7599	7589	7588
8.5	7588	7587	7586	7576	7574
9	7574	7574	7572	7562	7560
9.5	7560	7559	7557	7546	7545
10	7544	7543	7541	7531	7528
10.5	7529	7527	7525	7514	7511
11	7511	7510	7508	7496	7493
11.5	7494	7492	7489	7477	7475
12	7475	7474	7470	7457	7455
12.5	7456	7454	7450	7437	7434
13	7435	7433	7429	7415	7413
13.5	7414	7412	7408	7393	7390
14	7393	7391	7385	7370	7367
14.5	7369	7367	7362	7346	7342
15	7346	7344	7338	7321	7317
15.5	7321	7319	7312	7295	7290
16	7296	7294	7286	7268	7263
16.5	7270	7267	7258	7239	7234
17	7243	7239	7230	7210	7205
17.5	7214	7211	7201	7180	7174
18	7186	7182	7172	7149	7143
18.5	7157	7153	7141	7118	7110
19	7126	7122	7109	7084	7077
19.5	7095	7090	7077	7051	7042
20	7062	7057	7042	7015	7005
20.5	7029	7024	7008	6979	6968
21	6994	6989	6972	6942	6930
21.5	6960	6954	6936	6903	6891
22	6923	6917	6898	6864	6850
22.5	6887	6881	6859	6824	6809
23	6850	6843	6821	6782	6767
23.5	6811	6803	6779	6739	6722
24	6772	6764	6738	6696	6678
24.5	6731	6722	6695	6651	6631
25	6690	6681	6652	6605	6585
25.5	6648	6638	6607	6557	6535
26	6606	6595	6562	6510	6487
26.5	6561	6550	6514	6460	6436
27	6517	6505	6467	6411	6384
27.5	6472	6460	6420	6360	6332
28	6425	6412	6369	6307	6278
28.5	6379	6364	6319	6254	6223
29	6330	6315	6267	6199	6167

29.5	6281	6266	6215	6144	6111
30	6231	6214	6162	6087	6052
30.5	6181	6163	6108	6030	5994
31	6128	6110	6052	5971	5933
31.5	6077	6058	5996	5912	5873
32	6025	6005	5940	5853	5812
32.5	5970	5949	5881	5791	5748
33	5916	5894	5823	5730	5685
33.5	5859	5836	5763	5666	5621
34	5803	5780	5703	5603	5556
34.5	5746	5721	5641	5538	5489
35	5688	5663	5579	5473	5424
35.5	5629	5603	5516	5407	5356
36	5571	5543	5453	5341	5289
36.5	5512	5482	5390	5275	5222
37	5450	5421	5324	5206	5152
37.5	5389	5359	5259	5138	5084
38	5327	5294	5192	5069	5013
38.5	5265	5232	5126	5000	4944
39	5200	5167	5058	4930	4873
39.5	5137	5103	4991	4861	4803
40	5072	5036	4922	4789	4731
40.5	5008	4971	4854	4719	4660
41	4944	4906	4786	4649	4590
41.5	4877	4838	4716	4578	4517
42	4811	4772	4647	4507	4446
42.5	4744	4703	4576	4435	4373
43	4677	4635	4506	4363	4302
43.5	4609	4567	4436	4292	4230
44	4542	4499	4366	4221	4158
44.5	4473	4429	4294	4148	4087
45	4405	4361	4224	4078	4016
45.5	4338	4293	4155	4008	3946
46	4268	4222	4083	3936	3874
46.5	4200	4154	4013	3866	3804
47	4130	4083	3941	3794	3733
47.5	4061	4015	3871	3725	3664
48	3991	3944	3800	3654	3594
48.5	3923	3875	3731	3585	3526
49	3852	3805	3660	3515	3457
49.5	3784	3736	3592	3447	3389
50	3716	3667	3523	3380	3322
50.5	3647	3599	3454	3311	3255
51	3579	3530	3386	3245	3189
51.5	3509	3460	3317	3177	3122
52	3442	3393	3250	3112	3057
52.5	3373	3324	3182	3046	2991
53	3306	3257	3116	2981	2928
53.5	3237	3189	3049	2916	2863

54	3171	3123	2984	2853	2802
54.5	3106	3058	2920	2791	2740
55	3038	2990	2854	2728	2678
55.5	2973	2926	2791	2667	2618
56	2908	2860	2727	2605	2557
56.5	2843	2797	2665	2546	2499
57	2778	2732	2603	2485	2440
57.5	2715	2669	2542	2428	2383
58	2651	2606	2480	2369	2325
58.5	2589	2544	2421	2312	2270
59	2527	2483	2362	2256	2215
59.5	2465	2422	2304	2199	2159
60	2405	2363	2246	2144	2106
60.5	2345	2302	2189	2089	2051
61	2286	2244	2133	2036	1999
61.5	2226	2185	2076	1982	1946
62	2168	2128	2022	1930	1896
62.5	2110	2071	1967	1878	1844
63	2053	2015	1914	1828	1795
63.5	1998	1960	1862	1778	1747
64	1941	1905	1810	1728	1698
64.5	1887	1852	1759	1680	1650
65	1832	1798	1708	1631	1603
65.5	1779	1746	1658	1584	1557
66	1726	1694	1609	1537	1511
66.5	1674	1643	1561	1492	1466
67	1622	1592	1513	1446	1421
67.5	1572	1543	1466	1401	1378
68	1522	1494	1420	1358	1336
68.5	1473	1445	1374	1315	1293
69	1425	1398	1330	1272	1252
69.5	1376	1351	1285	1230	1210
70	1330	1305	1242	1189	1170
70.5	1283	1259	1199	1148	1129
71	1238	1215	1157	1109	1091
71.5	1193	1170	1115	1069	1052
72	1149	1128	1074	1030	1014
72.5	1106	1086	1035	993	977
73	1063	1044	995	955	940
73.5	1021	1003	957	919	905
74	980	962	918	882	869
74.5	939	923	881	847	834
75	899	883	844	811	799
75.5	860	845	808	777	766
76	821	807	772	743	732
76.5	784	771	737	710	700
77	748	735	704	678	668
77.5	711	699	670	645	637
78	676	665	637	614	606

78.5	640	630	605	583	575
79	606	597	573	553	545
79.5	572	563	541	523	515
80	540	532	511	494	487
80.5	507	499	481	464	458
81	476	469	451	436	430
81.5	445	439	423	409	403
82	414	409	394	381	376
82.5	385	380	367	355	349
83	355	351	339	328	323
83.5	327	323	312	302	298
84	299	295	286	276	272
84.5	272	268	260	252	248
85	245	241	234	227	223
85.5	218	216	209	203	200
86	193	191	185	179	176
86.5	167	165	160	155	152
87	142	140	136	132	130
87.5	117	115	112	109	106
88	92	91	88	85	84
88.5	67	66	64	62	60
89	43	42	40	38	37
89.5	19	18	17	14	12
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102.5	0	0	0	0	0

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104	0	0	0	0	0
104.5	0	0	0	0	0
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105.5	0	0	0	0	0
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167.5	0	0	0	0	0
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169.5	0	0	0	0	0
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170.5	0	0	0	0	0
171	0	0	0	0	0
171.5	0	0	0	0	0
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172.5	0	0	0	0	0
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173.5	0	0	0	0	0
174	0	0	0	0	0
174.5	0	0	0	0	0
175	0	0	0	0	0
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] LLIA001674-002-R01

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 6/6/2022

[MANUFAC] Saylite

[LUMCAT] THLPFR20X24LB125DMVWH30K

[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 1400mA

[OTHER] 120.0Vac, 60.00Hz, 1.053A, 125.9W, 0.996PF, 4.7%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.