



Filename: THLPFR20X24LB165DMVWH30K

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: THLPFR20X24LB165DMVWH30K

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 1840mA

Lamp Output: Total luminaire Lumens: 23284.2

Max Candela: 9,963.0 at Horizontal: 0°, Vertical: 0°

Input Wattage: 165.61

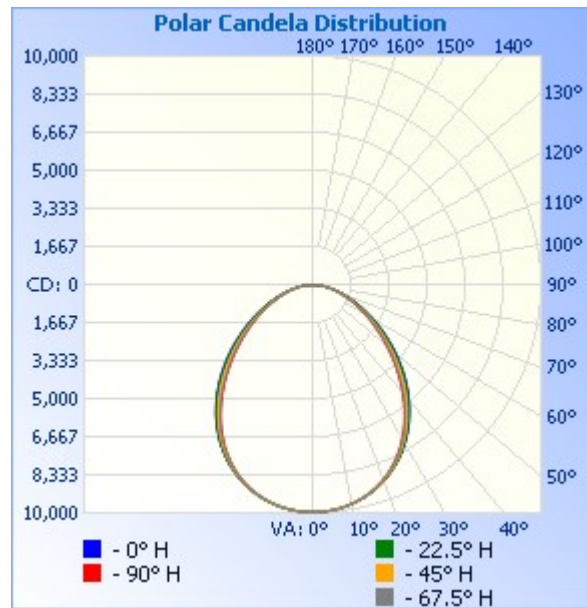
Luminous Opening: Rectangle (L: 23.12", W: 21.5")

Test: LLIA001674-003A-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:	701.0	
	Lumens	% Lamp
Downward Street Side:	11,642.4	50%
Downward House Side:	11,642.4	50%
Downward Total:	23,284.7	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	23,284.7	100%

Flood Summary

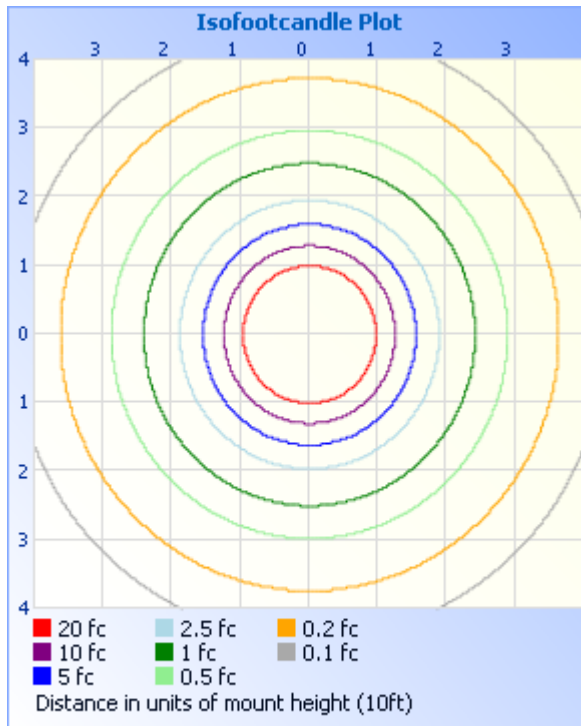
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.1%	22,598.0	150.9	153.5
Beam (50%):	65.7%	15,299.5	92.3	98
Total:	100%	23,277.6		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	7,564.4	32.5%
0-40	12,055.1	51.8%
0-60	19,568.5	84%
60-90	3,715.7	16%
70-100	1,508.9	6.5%
90-120	0	0%
0-90	23,284.2	100%
90-180	0	0%
0-180	23,284.2	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	941.1	4.0%	90-100	0	0%
10-20	2,673.7	11.5%	100-110	0	0%
20-30	3,949.6	17.0%	110-120	0	0%
30-40	4,490.7	19.3%	120-130	0	0%
40-50	4,201.7	18.0%	130-140	0	0%
50-60	3,311.7	14.2%	140-150	0	0%
60-70	2,206.9	9.5%	150-160	0	0%
70-80	1,170.0	5.0%	160-170	0	0%
80-90	338.9	1.5%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	3,447 fc	3.9 ft	3.5 ft
3.3R	915 fc	7.6 ft	6.9 ft
5.0R	399 fc	11.5 ft	10.4 ft
6.7R	222 fc	15.4 ft	13.9 ft
8.3R	145 fc	19.1 ft	17.3 ft
10.0R	99.6 fc	23.0 ft	20.8 ft

■ Vert. Spread: 98.0°
■ Horiz. Spread: 92.3°

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	0	50	30	20	0	50	30	20	0	0	0	0	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	1.06	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	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	.88	.88	.86	.86	.86	.86	.86
2	1.00	.93	.86	.81	.98	.91	.85	.74	.87	.83	.78	.84	.80	.77	.81	.78	.75	.75	.75	.73	.73	.73	.73	.73
3	.92	.82	.75	.69	.90	.81	.74	.64	.78	.72	.67	.75	.70	.66	.73	.68	.65	.65	.65	.62	.62	.62	.62	.62
4	.85	.74	.65	.59	.83	.72	.65	.56	.70	.63	.58	.68	.62	.57	.65	.60	.56	.56	.56	.54	.54	.54	.54	.54
5	.78	.66	.58	.51	.76	.65	.57	.49	.63	.56	.51	.61	.55	.50	.59	.54	.49	.49	.49	.47	.47	.47	.47	.47
6	.73	.60	.51	.45	.71	.59	.51	.44	.57	.50	.45	.56	.49	.44	.54	.48	.44	.44	.44	.42	.42	.42	.42	.42
7	.68	.55	.46	.40	.66	.54	.46	.39	.52	.45	.40	.51	.44	.40	.50	.44	.39	.39	.39	.37	.37	.37	.37	.37
8	.63	.50	.42	.36	.62	.49	.42	.35	.48	.41	.36	.47	.40	.36	.46	.40	.35	.35	.35	.34	.34	.34	.34	.34
9	.59	.46	.38	.33	.58	.45	.38	.32	.44	.37	.33	.43	.37	.32	.42	.36	.32	.32	.32	.30	.30	.30	.30	.30
10	.55	.43	.35	.30	.54	.42	.35	.29	.41	.34	.30	.40	.34	.30	.39	.34	.29	.29	.29	.28	.28	.28	.28	.28

Candela Table - Type C

	0	22.5	45	67.5	90
0	9963	9963	9963	9963	9963
0.5	9963	9963	9963	9962	9961
1	9961	9961	9962	9959	9959
1.5	9959	9959	9960	9956	9955
2	9956	9956	9956	9952	9951
2.5	9952	9952	9952	9946	9945
3	9946	9946	9947	9940	9938
3.5	9940	9940	9941	9932	9931
4	9932	9932	9933	9924	9922
4.5	9924	9924	9925	9914	9912

5	9915	9915	9916	9904	9902
5.5	9904	9904	9905	9893	9891
6	9893	9893	9893	9881	9878
6.5	9880	9880	9879	9867	9865
7	9867	9866	9866	9853	9851
7.5	9852	9851	9850	9838	9835
8	9836	9835	9834	9821	9819
8.5	9819	9818	9816	9804	9801
9	9801	9800	9798	9785	9782
9.5	9783	9782	9779	9766	9763
10	9763	9761	9759	9745	9742
10.5	9742	9740	9737	9723	9720
11	9719	9718	9714	9699	9696
11.5	9696	9694	9691	9675	9671
12	9672	9670	9665	9649	9646
12.5	9647	9645	9639	9623	9620
13	9620	9618	9612	9595	9591
13.5	9593	9591	9584	9566	9562
14	9565	9562	9555	9537	9532
14.5	9535	9533	9525	9505	9500
15	9505	9502	9493	9472	9467
15.5	9473	9469	9460	9438	9432
16	9440	9436	9426	9403	9397
16.5	9405	9401	9390	9366	9359
17	9371	9366	9354	9329	9321
17.5	9333	9329	9316	9289	9281
18	9296	9292	9277	9249	9240
18.5	9258	9253	9238	9208	9198
19	9219	9213	9196	9165	9154
19.5	9178	9172	9154	9121	9109
20	9135	9129	9110	9074	9061
20.5	9092	9086	9065	9028	9014
21	9048	9040	9018	8978	8963
21.5	9002	8995	8971	8929	8913
22	8955	8947	8921	8877	8859
22.5	8908	8899	8872	8825	8806
23	8860	8851	8821	8772	8752
23.5	8810	8800	8768	8716	8694
24	8759	8748	8715	8660	8636
24.5	8706	8694	8658	8601	8575
25	8653	8641	8602	8541	8515
25.5	8598	8585	8544	8480	8451
26	8543	8529	8485	8418	8387
26.5	8486	8470	8424	8353	8321
27	8429	8412	8363	8289	8255
27.5	8370	8353	8300	8223	8188
28	8310	8291	8236	8155	8117
28.5	8249	8229	8171	8086	8046
29	8186	8165	8102	8014	7972

29.5	8123	8101	8035	7943	7899
30	8057	8035	7965	7868	7823
30.5	7992	7969	7896	7795	7748
31	7925	7900	7823	7718	7669
31.5	7858	7832	7751	7642	7591
32	7790	7763	7678	7565	7512
32.5	7719	7691	7602	7485	7430
33	7649	7619	7527	7405	7349
33.5	7577	7545	7449	7323	7264
34	7504	7471	7370	7240	7180
34.5	7429	7395	7290	7157	7095
35	7355	7320	7211	7073	7009
35.5	7278	7242	7128	6987	6922
36	7203	7164	7047	6901	6835
36.5	7125	7086	6965	6816	6748
37	7048	7006	6880	6727	6658
37.5	6968	6926	6796	6639	6569
38	6887	6843	6709	6549	6478
38.5	6806	6761	6624	6461	6388
39	6724	6678	6536	6369	6296
39.5	6642	6595	6449	6280	6205
40	6558	6509	6359	6187	6111
40.5	6475	6425	6271	6097	6021
41	6392	6340	6184	6007	5929
41.5	6306	6253	6092	5914	5836
42	6220	6166	6003	5822	5744
42.5	6133	6078	5912	5728	5650
43	6046	5991	5822	5637	5558
43.5	5960	5902	5730	5544	5464
44	5872	5814	5639	5452	5372
44.5	5783	5724	5548	5359	5279
45	5696	5635	5457	5268	5188
45.5	5609	5548	5367	5177	5097
46	5519	5457	5275	5084	5005
46.5	5431	5368	5184	4993	4915
47	5341	5277	5092	4901	4823
47.5	5253	5188	5002	4811	4734
48	5162	5098	4910	4720	4643
48.5	5073	5009	4821	4631	4555
49	4983	4918	4730	4541	4466
49.5	4895	4829	4641	4453	4379
50	4807	4741	4552	4366	4292
50.5	4717	4651	4463	4277	4205
51	4630	4562	4375	4191	4120
51.5	4540	4473	4286	4104	4034
52	4453	4386	4200	4020	3950
52.5	4365	4297	4112	3934	3865
53	4278	4211	4027	3852	3784
53.5	4190	4123	3940	3767	3701

54	4104	4038	3857	3686	3620
54.5	4019	3953	3774	3606	3541
55	3933	3867	3690	3525	3461
55.5	3849	3784	3608	3446	3383
56	3763	3699	3525	3366	3305
56.5	3681	3617	3446	3289	3230
57	3597	3533	3366	3211	3153
57.5	3515	3453	3287	3137	3080
58	3433	3371	3207	3060	3005
58.5	3352	3291	3131	2987	2934
59	3273	3213	3055	2914	2863
59.5	3193	3134	2979	2842	2791
60	3115	3057	2905	2771	2722
60.5	3037	2979	2830	2700	2652
61	2961	2904	2758	2631	2584
61.5	2884	2828	2685	2561	2516
62	2809	2754	2615	2495	2451
62.5	2733	2680	2544	2427	2384
63	2660	2608	2476	2362	2320
63.5	2589	2538	2409	2298	2258
64	2516	2466	2341	2233	2195
64.5	2446	2397	2275	2171	2133
65	2375	2328	2209	2108	2072
65.5	2307	2260	2145	2048	2013
66	2238	2193	2081	1987	1953
66.5	2171	2127	2019	1928	1896
67	2105	2061	1957	1869	1838
67.5	2039	1998	1897	1811	1781
68	1974	1935	1837	1755	1726
68.5	1911	1872	1778	1699	1671
69	1848	1811	1721	1644	1618
69.5	1786	1750	1663	1590	1564
70	1726	1691	1607	1537	1512
70.5	1665	1631	1551	1484	1460
71	1607	1574	1497	1433	1410
71.5	1547	1516	1442	1381	1359
72	1491	1461	1390	1332	1310
72.5	1435	1407	1338	1283	1263
73	1380	1352	1287	1234	1215
73.5	1326	1299	1237	1187	1169
74	1272	1247	1188	1139	1122
74.5	1220	1196	1140	1094	1078
75	1167	1144	1091	1048	1033
75.5	1117	1095	1045	1004	990
76	1067	1046	998	959	946
76.5	1019	998	954	917	904
77	972	952	910	875	863
77.5	924	906	866	833	822
78	878	861	824	793	782

78.5	832	816	782	753	742
79	788	773	741	714	704
79.5	744	730	700	675	665
80	701	689	661	637	628
80.5	659	647	622	599	591
81	618	608	584	563	555
81.5	579	569	547	527	520
82	539	530	510	492	485
82.5	500	492	474	458	451
83	462	455	438	423	417
83.5	425	419	404	390	385
84	389	382	369	357	352
84.5	354	348	336	325	320
85	318	313	303	293	289
85.5	284	280	271	262	258
86	251	247	240	232	228
86.5	217	214	208	201	197
87	185	182	177	171	167
87.5	152	150	146	140	136
88	120	118	114	109	106
88.5	88	86	82	77	74
89	56	55	51	46	43
89.5	25	23	21	19	17
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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99	0	0	0	0	0
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127	0	0	0	0	0

127.5	0	0	0	0	0
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150	0	0	0	0	0
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151	0	0	0	0	0
151.5	0	0	0	0	0

152	0	0	0	0	0
152.5	0	0	0	0	0
153	0	0	0	0	0
153.5	0	0	0	0	0
154	0	0	0	0	0
154.5	0	0	0	0	0
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156	0	0	0	0	0
156.5	0	0	0	0	0
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158	0	0	0	0	0
158.5	0	0	0	0	0
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159.5	0	0	0	0	0
160	0	0	0	0	0
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167.5	0	0	0	0	0
168	0	0	0	0	0
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169	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] LLIA001674-003A-R01
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 6/6/2022
 [MANUFAC] Saylite
 [LUMCAT] THLPFR20X24LB165DMVWH30K
 [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 1840mA
 [OTHER] 120.0Vac, 60.00Hz, 1.384A, 165.6W, 0.997PF, 3.7%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.