



Filename: THLPFR20X24LB105DMVWH30K

Manufacturer: Saylite

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

Luminaire Cat: THLPFR20X24LB105DMVWH30K

Lamp: 300 white LEDs, two Seoul Semiconductor SMJD-4244150C-FCX8_R1.0 boards with 150 LEDs each

Ballast Desc: One Advance XI095C275V054BSS1 LED driver labeled as 2300mA

Lamp Output: Total luminaire Lumens: 14854.4

Max Candela: 6,174.0 at Horizontal: 0°, Vertical: 0°

Input Wattage: 104.95

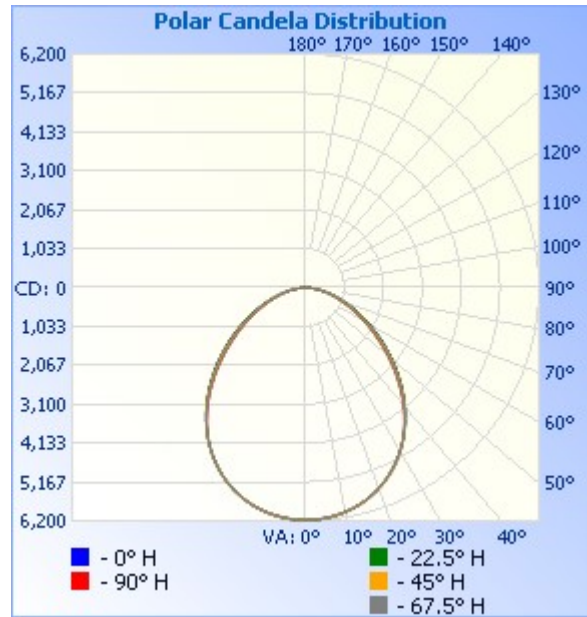
Luminous Opening: Rectangle (L: 23.12", W: 21.5")

Test: LLIA001674-001A-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:	446.0	
	Lumens	% Lamp
Downward Street Side:	7,427.4	50%
Downward House Side:	7,427.4	50%
Downward Total:	14,854.7	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	14,854.7	100%

Flood Summary

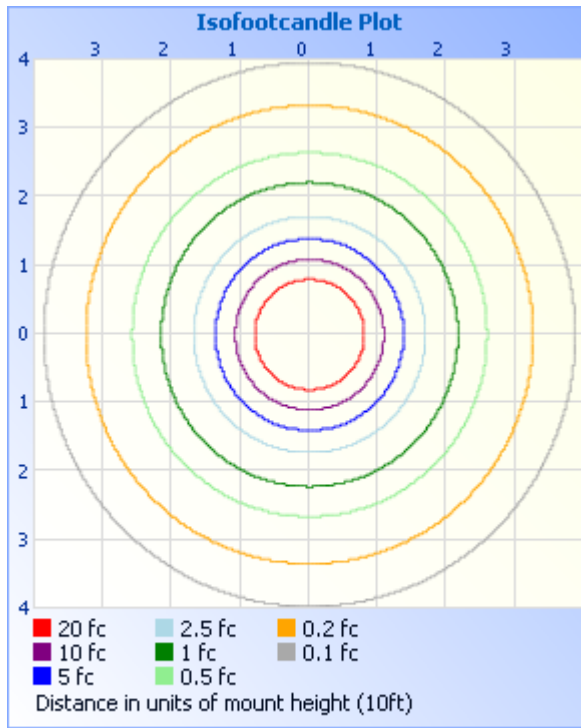
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.2%	14,438.9	151.8	154
Beam (50%):	67.3%	9,994.1	96.4	98.7
Total:	100%	14,850.1		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	4,722.9	31.8%
0-40	7,580.6	51%
0-60	12,449.9	83.8%
60-90	2,404.5	16.2%
70-100	971.9	6.5%
90-120	0	0%
0-90	14,854.4	100%
90-180	0	0%
0-180	14,854.4	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	583.5	3.9%	90-100	0	0%
10-20	1,662.7	11.2%	100-110	0	0%
20-30	2,476.7	16.7%	110-120	0	0%
30-40	2,857.7	19.2%	120-130	0	0%
40-50	2,714.8	18.3%	130-140	0	0%
50-60	2,154.6	14.5%	140-150	0	0%
60-70	1,432.6	9.6%	150-160	0	0%
70-80	754.7	5.1%	160-170	0	0%
80-90	217.2	1.5%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	2,136 fc	4.0 ft	3.8 ft
3.3R	567 fc	7.7 ft	7.4 ft
5.0R	247 fc	11.6 ft	11.2 ft
6.7R	138 fc	15.6 ft	15.0 ft
8.3R	89.6 fc	19.3 ft	18.6 ft
10.0R	61.7 fc	23.3 ft	22.4 ft

■ Vert. Spread: 98.7°
■ Horiz. Spread: 96.4°

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	.92	.90	.91	.89	.88	.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	.72	.66	.75	.70	.65	.72	.68	.64	.62
4	.85	.73	.65	.59	.82	.72	.64	.56	.70	.63	.57	.67	.61	.57	.65	.60	.56	.54
5	.78	.66	.57	.51	.76	.65	.57	.49	.63	.56	.50	.61	.55	.50	.59	.53	.49	.47
6	.72	.60	.51	.45	.71	.59	.51	.43	.57	.50	.44	.55	.49	.44	.54	.48	.44	.42
7	.67	.54	.46	.40	.66	.53	.45	.39	.52	.45	.39	.51	.44	.39	.49	.43	.39	.37
8	.63	.50	.41	.36	.61	.49	.41	.35	.48	.41	.35	.46	.40	.35	.45	.39	.35	.33
9	.59	.46	.38	.32	.57	.45	.38	.32	.44	.37	.32	.43	.37	.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	6174	6174	6174	6174	6174
0.5	6174	6174	6174	6172	6172
1	6174	6173	6173	6171	6170
1.5	6173	6172	6172	6168	6167
2	6171	6170	6170	6165	6164
2.5	6169	6168	6168	6161	6160
3	6167	6165	6165	6157	6156
3.5	6164	6162	6161	6153	6151
4	6160	6158	6157	6147	6146
4.5	6155	6153	6152	6141	6140

5	6150	6147	6147	6135	6133
5.5	6144	6141	6140	6129	6127
6	6137	6134	6133	6122	6120
6.5	6129	6126	6125	6114	6113
7	6120	6118	6117	6106	6105
7.5	6111	6109	6108	6098	6096
8	6102	6099	6099	6089	6087
8.5	6091	6089	6089	6079	6077
9	6081	6078	6078	6068	6067
9.5	6069	6067	6067	6058	6056
10	6057	6055	6055	6046	6044
10.5	6044	6042	6043	6034	6032
11	6031	6029	6029	6021	6019
11.5	6017	6015	6015	6007	6006
12	6002	6000	6001	5993	5992
12.5	5987	5985	5986	5979	5977
13	5970	5969	5970	5963	5961
13.5	5954	5952	5954	5947	5945
14	5937	5935	5937	5931	5929
14.5	5918	5917	5919	5913	5912
15	5900	5899	5901	5895	5893
15.5	5880	5879	5882	5876	5875
16	5860	5859	5862	5857	5855
16.5	5839	5838	5842	5837	5835
17	5818	5817	5821	5816	5815
17.5	5795	5795	5798	5795	5793
18	5773	5773	5776	5773	5771
18.5	5750	5749	5753	5750	5749
19	5725	5725	5730	5727	5725
19.5	5700	5701	5705	5703	5701
20	5675	5675	5679	5678	5675
20.5	5648	5648	5654	5652	5650
21	5621	5621	5627	5626	5623
21.5	5593	5594	5600	5599	5596
22	5565	5565	5571	5570	5568
22.5	5536	5537	5543	5542	5540
23	5506	5507	5513	5513	5511
23.5	5476	5477	5483	5482	5480
24	5445	5446	5452	5452	5450
24.5	5412	5414	5420	5420	5417
25	5380	5381	5388	5388	5385
25.5	5346	5348	5354	5354	5351
26	5313	5314	5321	5320	5317
26.5	5277	5279	5285	5285	5282
27	5243	5244	5250	5250	5247
27.5	5207	5208	5215	5214	5211
28	5170	5171	5177	5177	5173
28.5	5133	5134	5140	5139	5135
29	5094	5095	5101	5099	5095

29.5	5056	5057	5062	5060	5056
30	5016	5017	5022	5019	5015
30.5	4976	4977	4982	4978	4974
31	4934	4936	4939	4935	4931
31.5	4893	4895	4898	4893	4888
32	4852	4853	4856	4850	4845
32.5	4809	4810	4812	4806	4800
33	4766	4766	4768	4761	4755
33.5	4721	4722	4722	4714	4708
34	4677	4677	4677	4668	4661
34.5	4631	4631	4630	4620	4612
35	4585	4586	4584	4572	4564
35.5	4538	4538	4536	4523	4514
36	4492	4491	4488	4474	4464
36.5	4444	4444	4440	4424	4414
37	4397	4396	4390	4373	4362
37.5	4348	4347	4340	4321	4310
38	4298	4296	4289	4268	4256
38.5	4249	4247	4238	4216	4203
39	4198	4196	4186	4162	4148
39.5	4148	4146	4134	4109	4094
40	4095	4093	4080	4053	4037
40.5	4045	4042	4028	3999	3983
41	3993	3991	3975	3944	3926
41.5	3941	3937	3921	3888	3870
42	3888	3885	3867	3832	3813
42.5	3835	3831	3811	3775	3754
43	3782	3778	3756	3718	3697
43.5	3728	3723	3701	3661	3638
44	3674	3669	3646	3603	3580
44.5	3620	3614	3589	3545	3521
45	3566	3559	3533	3488	3463
45.5	3512	3505	3478	3431	3405
46	3456	3449	3420	3371	3345
46.5	3402	3395	3365	3314	3287
47	3346	3339	3308	3255	3227
47.5	3292	3284	3251	3197	3169
48	3236	3228	3194	3138	3109
48.5	3181	3173	3138	3081	3051
49	3125	3116	3080	3022	2992
49.5	3071	3062	3024	2965	2934
50	3016	3007	2968	2908	2877
50.5	2961	2951	2911	2849	2818
51	2906	2896	2856	2793	2761
51.5	2851	2840	2799	2735	2703
52	2797	2786	2744	2679	2646
52.5	2742	2731	2688	2622	2589
53	2688	2677	2633	2567	2533
53.5	2634	2622	2578	2511	2477

54	2580	2569	2524	2457	2423
54.5	2528	2516	2470	2403	2369
55	2474	2462	2415	2348	2314
55.5	2422	2409	2363	2295	2260
56	2369	2356	2309	2241	2207
56.5	2317	2305	2257	2189	2155
57	2264	2252	2205	2137	2103
57.5	2214	2201	2154	2086	2052
58	2162	2150	2102	2034	2002
58.5	2112	2100	2052	1985	1952
59	2062	2050	2002	1935	1903
59.5	2013	2000	1952	1886	1855
60	1964	1952	1904	1838	1807
60.5	1915	1902	1855	1790	1759
61	1868	1855	1808	1743	1713
61.5	1819	1807	1760	1696	1666
62	1773	1760	1714	1651	1622
62.5	1725	1713	1667	1605	1576
63	1680	1667	1622	1561	1533
63.5	1635	1623	1578	1517	1490
64	1589	1577	1533	1474	1447
64.5	1545	1533	1490	1432	1405
65	1501	1489	1446	1389	1363
65.5	1458	1446	1404	1349	1323
66	1414	1403	1362	1307	1283
66.5	1373	1362	1321	1268	1243
67	1330	1319	1280	1228	1204
67.5	1289	1279	1240	1190	1166
68	1249	1239	1201	1153	1129
68.5	1208	1199	1161	1115	1092
69	1170	1160	1124	1078	1056
69.5	1130	1121	1085	1041	1019
70	1093	1083	1049	1005	984
70.5	1054	1045	1012	970	950
71	1017	1009	976	935	916
71.5	980	972	940	901	882
72	945	936	906	868	850
72.5	909	902	872	836	818
73	875	866	839	803	786
73.5	840	833	806	772	756
74	806	799	773	740	725
74.5	773	766	742	710	696
75	740	733	710	680	666
75.5	709	702	679	651	638
76	677	670	649	622	609
76.5	646	640	619	594	582
77	617	610	591	566	555
77.5	586	581	562	539	528
78	557	552	534	512	502

78.5	528	523	507	486	475
79	500	496	480	461	451
79.5	472	468	453	435	426
80	446	441	428	411	402
80.5	419	415	402	386	378
81	393	389	378	363	355
81.5	367	364	353	339	332
82	342	340	329	317	310
82.5	318	316	306	294	288
83	294	291	283	272	266
83.5	270	268	261	250	245
84	247	245	238	229	224
84.5	225	223	217	208	203
85	202	201	195	187	183
85.5	181	179	174	168	164
86	160	158	154	149	145
86.5	138	137	134	129	125
87	118	117	114	109	106
87.5	97	96	94	89	86
88	77	76	74	69	66
88.5	56	55	53	49	46
89	36	35	32	29	26
89.5	15	15	12	10	9
90	0	0	0	0	0
90.5	0	0	0	0	0
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91.5	0	0	0	0	0
92	0	0	0	0	0
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98	0	0	0	0	0
98.5	0	0	0	0	0
99	0	0	0	0	0
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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
105.5	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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160	0	0	0	0	0
160.5	0	0	0	0	0
161	0	0	0	0	0
161.5	0	0	0	0	0
162	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
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166.5	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
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171.5	0	0	0	0	0
172	0	0	0	0	0
172.5	0	0	0	0	0
173	0	0	0	0	0
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] LLIA001674-001A-R01
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 6/6/2022
 [MANUFAC] Saylite
 [LUMCAT] THLPFR20X24LB105DMVWH30K
 [LUMINAIRE] Highbay mounted, formed white painted steel housing, two optical
 [MORE] compartments each with one white circuit board and flat translucent plastic
 [MORE] enclosure.
 [LAMP] 300 white LEDs, two Seoul Semiconductor SMJD-4244150C-FCX8_R1.0 boards
 [MORE] with 150 LEDs each
 [BALLAST] One Advance XI095C275V054BSS1 LED driver labeled as 2300mA
 [OTHER] 120.0Vac, 60.00Hz, 0.8776A, 105.0W, 0.997PF, 4.9%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.