



Filename: CBF22LY33WDMV30K

Manufacturer: Saylite

Luminaire: Recessed mounted, formed steel housing, formed white enamel steel reflectors, translucent white plastic center enclosure.

Luminaire Cat: CBF22LY33WDMV30K

Lamp: 96 white LEDs, two Seoul Semiconductor SMJD-3612048C-XXN1_R1.1 boards with 48 LEDs each

Ballast Desc: One ERP PKB30W-1050-55-TD LED driver set at 850mA

Lamp Output: Total luminaire Lumens: 3977.8

Max Candela: 1,301.0 at Horizontal: 90°, Vertical: 0.5°

Input Wattage: 32.739

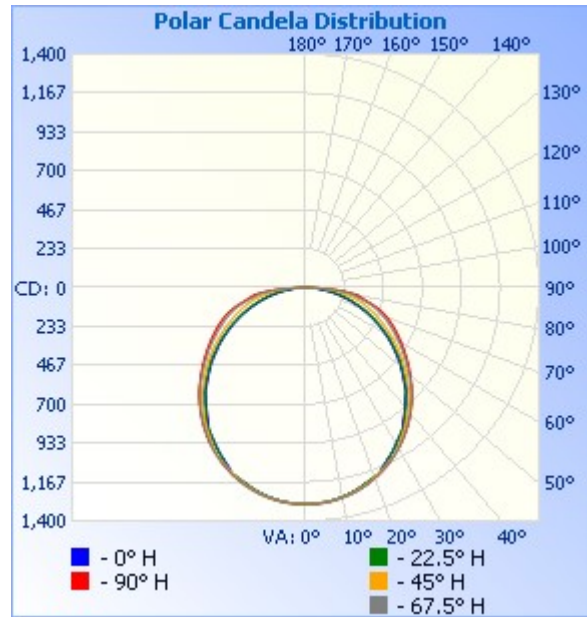
Luminous Opening: Rectangle (L: 23", W: 22.75")

Test: LLIA001463-017A

Test Lab: LightLab International Allentown, LLC

Photometry : Type C

Nema Type: 7 X 7

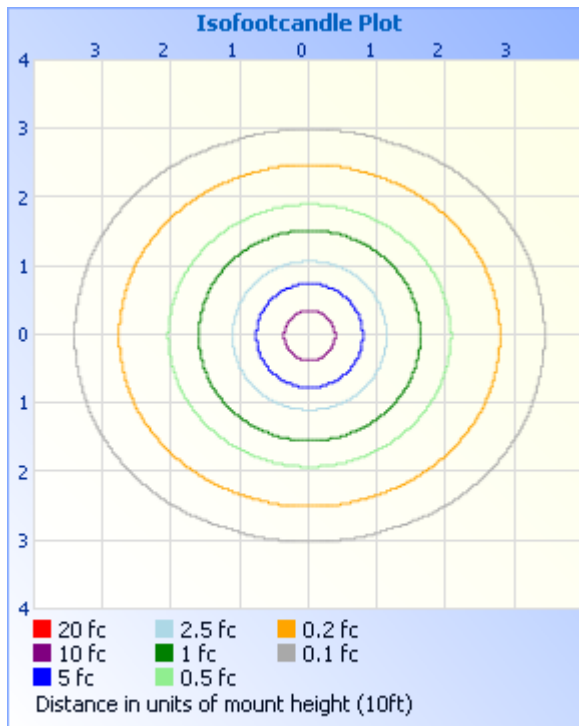


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	1.0	
Max Cd, 80 to <90 Deg:	338.0	
	Lumens % Lamp	
Downward Street Side:	1,988.9	50%
Downward House Side:	1,988.9	50%
Downward Total:	3,977.8	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	3,977.8	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.2%	3,945.4	174.3	163.3
Beam (50%):	70.7%	2,812.7	121.8	110.1
Total:	100%	3,976.8		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,010.4	25.4%
0-40	1,656.3	41.6%
0-60	2,952.1	74.2%
60-90	1,025.7	25.8%
70-100	514.4	12.9%
90-120	0.0	0%
0-90	3,977.8	100%
90-180	0.0	0%
0-180	3,977.8	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	122.9	3.1%	90-100	0.0	0%
10-20	352.3	8.9%	100-110	0	0%
20-30	535.2	13.5%	110-120	0	0%
30-40	645.9	16.2%	120-130	0	0%
40-50	674.4	17.0%	130-140	0	0%
50-60	621.4	15.6%	140-150	0	0%
60-70	511.3	12.9%	150-160	0	0%
70-80	361.7	9.1%	160-170	0	0%
80-90	152.7	3.8%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	449 fc	4.9 ft	6.1 ft
3.3R	119 fc	9.4 ft	11.8 ft
5.0R	51.9 fc	14.3 ft	18.0 ft
6.7R	28.9 fc	19.2 ft	24.1 ft
8.3R	18.8 fc	23.7 ft	29.8 ft
10.0R	13.0 fc	28.6 ft	35.9 ft

■ Vert. Spread: 110.1°
■ Horiz. Spread: 121.8°

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
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00
1	1.08	1.02	.97	.93	1.05	1.00	.96	.82	.96	.92	.89	.89	.92	.89	.86	.86	.88	.86	.83	.83	.81
2	.97	.88	.81	.75	.94	.86	.80	.68	.83	.77	.72	.72	.79	.75	.70	.70	.76	.72	.69	.69	.67
3	.88	.77	.69	.62	.86	.76	.68	.57	.72	.66	.60	.60	.70	.64	.59	.59	.67	.62	.58	.58	.56
4	.81	.68	.59	.52	.78	.67	.58	.49	.64	.57	.51	.51	.62	.55	.50	.50	.60	.54	.49	.49	.47
5	.74	.61	.51	.44	.72	.60	.51	.42	.57	.50	.44	.44	.55	.49	.43	.43	.54	.48	.43	.43	.41
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.38	.50	.43	.38	.38	.48	.42	.37	.37	.35
7	.63	.49	.40	.34	.62	.49	.40	.33	.47	.39	.34	.34	.46	.39	.33	.33	.44	.38	.33	.33	.31
8	.59	.45	.36	.30	.57	.44	.36	.30	.43	.35	.30	.30	.42	.35	.30	.30	.41	.34	.30	.30	.28
9	.55	.41	.33	.27	.54	.41	.33	.27	.40	.32	.27	.27	.39	.32	.27	.27	.37	.31	.27	.27	.25
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.29	.25	.25	.36	.29	.24	.24	.35	.29	.24	.24	.23

Candela Table - Type C

	0	22.5	45	67.5	90
0	1297	1297	1297	1297	1297
0.5	1295	1295	1296	1298	1301
1	1295	1295	1296	1298	1300
1.5	1295	1295	1296	1298	1300
2	1295	1295	1296	1298	1300
2.5	1295	1294	1296	1297	1299
3	1294	1294	1295	1297	1299
3.5	1294	1294	1295	1296	1298
4	1294	1293	1294	1296	1297
4.5	1293	1292	1293	1295	1297
5	1291	1291	1292	1294	1295

5.5	1290	1290	1291	1293	1294
6	1289	1289	1290	1292	1293
6.5	1287	1287	1289	1291	1292
7	1286	1286	1288	1289	1290
7.5	1284	1284	1286	1288	1289
8	1282	1282	1284	1287	1287
8.5	1280	1280	1282	1285	1285
9	1278	1278	1280	1283	1283
9.5	1276	1276	1278	1281	1281
10	1273	1274	1276	1279	1279
10.5	1271	1271	1274	1277	1277
11	1268	1268	1271	1275	1275
11.5	1265	1266	1269	1273	1272
12	1263	1263	1266	1270	1270
12.5	1260	1260	1263	1267	1267
13	1257	1257	1261	1265	1265
13.5	1253	1254	1258	1262	1262
14	1250	1251	1254	1259	1259
14.5	1246	1247	1251	1256	1256
15	1243	1244	1248	1253	1253
15.5	1239	1240	1245	1250	1250
16	1235	1236	1241	1246	1246
16.5	1231	1232	1237	1243	1243
17	1227	1228	1234	1239	1240
17.5	1224	1224	1230	1235	1236
18	1220	1220	1226	1232	1232
18.5	1218	1216	1222	1228	1228
19	1216	1213	1217	1224	1224
19.5	1213	1209	1213	1220	1220
20	1211	1206	1209	1216	1216
20.5	1208	1203	1204	1211	1212
21	1204	1201	1199	1207	1208
21.5	1198	1198	1195	1203	1203
22	1191	1194	1190	1198	1199
22.5	1182	1190	1185	1193	1194
23	1173	1185	1180	1189	1189
23.5	1165	1178	1175	1184	1185
24	1159	1170	1171	1179	1180
24.5	1153	1161	1166	1174	1175
25	1147	1153	1162	1169	1170
25.5	1140	1145	1157	1164	1165
26	1134	1139	1154	1158	1159
26.5	1128	1132	1149	1152	1154
27	1122	1126	1145	1147	1148
27.5	1116	1120	1140	1142	1143
28	1110	1114	1135	1136	1137
28.5	1103	1107	1129	1130	1132
29	1096	1101	1124	1124	1126
29.5	1090	1094	1117	1118	1120

30	1083	1087	1109	1112	1114
30.5	1076	1080	1101	1106	1108
31	1069	1074	1091	1100	1102
31.5	1062	1067	1083	1094	1096
32	1056	1060	1075	1087	1090
32.5	1051	1053	1067	1081	1084
33	1046	1046	1060	1074	1077
33.5	1040	1040	1053	1068	1071
34	1034	1034	1046	1061	1064
34.5	1026	1028	1039	1054	1057
35	1016	1022	1032	1048	1050
35.5	1005	1015	1024	1041	1044
36	995	1007	1017	1034	1037
36.5	986	999	1010	1027	1030
37	978	990	1002	1019	1023
37.5	970	981	995	1012	1016
38	961	971	987	1005	1009
38.5	953	961	979	998	1001
39	945	953	971	990	994
39.5	936	944	963	983	987
40	928	936	956	975	979
40.5	920	928	948	968	972
41	911	919	941	961	964
41.5	903	911	934	953	956
42	894	902	927	946	949
42.5	886	893	920	938	941
43	879	885	912	931	933
43.5	873	876	904	924	925
44	865	869	895	916	918
44.5	855	861	886	909	909
45	843	854	876	901	902
45.5	832	846	866	893	894
46	822	837	856	885	886
46.5	813	828	847	876	877
47	803	817	838	867	869
47.5	794	806	829	858	861
48	785	795	820	848	853
48.5	776	786	811	839	845
49	766	776	802	829	836
49.5	756	767	793	821	828
50	747	757	784	812	820
50.5	738	748	775	803	812
51	731	739	766	794	804
51.5	722	729	757	786	796
52	711	721	748	777	788
52.5	699	714	739	769	779
53	689	705	730	760	772
53.5	679	695	722	752	764
54	669	684	713	743	756

54.5	660	672	704	735	748
55	650	661	693	727	740
55.5	640	652	683	719	732
56	630	642	674	710	724
56.5	620	632	664	702	716
57	612	622	655	694	708
57.5	601	612	646	686	701
58	590	604	636	677	693
58.5	580	596	627	669	685
59	570	587	618	661	678
59.5	560	574	609	653	670
60	550	563	600	645	663
60.5	539	552	591	637	656
61	530	543	582	630	648
61.5	519	533	573	622	641
62	509	523	564	614	634
62.5	499	513	555	606	626
63	489	505	546	599	619
63.5	479	493	538	591	612
64	469	483	529	583	605
64.5	459	473	521	576	598
65	449	463	512	569	591
65.5	439	453	504	561	584
66	429	443	495	554	577
66.5	419	433	487	546	570
67	409	423	478	539	563
67.5	399	414	470	532	556
68	389	404	462	525	549
68.5	379	394	454	517	541
69	369	385	446	510	534
69.5	359	375	438	502	527
70	349	365	430	495	520
70.5	339	355	422	487	512
71	329	346	414	480	504
71.5	319	336	406	472	496
72	309	327	398	464	488
72.5	300	318	390	456	479
73	290	309	382	448	470
73.5	280	300	374	439	461
74	271	291	367	430	451
74.5	261	282	359	421	441
75	252	273	350	411	431
75.5	242	264	342	402	421
76	232	256	334	391	410
76.5	223	247	325	381	400
77	214	239	317	371	389
77.5	204	230	308	360	379
78	195	222	298	350	369
78.5	185	213	289	339	360

79	176	205	279	329	352
79.5	167	196	268	320	345
80	158	188	258	312	338
80.5	148	179	248	304	331
81	139	171	237	297	325
81.5	130	162	227	290	318
82	121	154	218	283	311
82.5	112	145	210	275	298
83	103	136	201	263	284
83.5	94	127	193	249	270
84	85	118	184	234	254
84.5	77	109	174	219	238
85	68	100	161	203	220
85.5	59	91	147	185	202
86	51	82	133	168	183
86.5	42	71	117	148	162
87	34	60	101	127	140
87.5	26	48	83	105	116
88	19	36	64	82	91
88.5	11	23	44	57	65
89	5	10	25	34	39
89.5	0	1	8	11	14
90	0	0	1	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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92.5	0	0	0	0	0
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103	0	0	0	0	0

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117.5	0	0	0	0	0
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120.5	0	0	0	0	0
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125.5	0	0	0	0	0
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151	0	0	0	0	0
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152	0	0	0	0	0

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165	0	0	0	0	0
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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
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] LLIA001463-017A
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 6/2/2021
[MANUFAC] Saylite
[LUMCAT] CBF22LY33WDMV30K
[LUMINAIRE] Recessed mounted, formed steel housing, formed white enamel
[MORE] steel reflectors, translucent white plastic center enclosure.
[LAMP] 96 white LEDs, two Seoul Semiconductor SMJD-3612048C-XXN1_R1.1 boards
[MORE] with 48 LEDs each
[BALLAST] One ERP PKB30W-1050-55-TD LED driver set at 850mA
[OTHER] 120.0Vac, 60.00Hz, 0.2755A, 32.74W, 0.990PF, 10.5%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.