



**Filename:** CBF24LY35WDMV30K

**Manufacturer:** Saylite

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

**Luminaire Cat:** CBF24LY35WDMV30K

**Lamp:** 192 white LEDs, four Seoul Semiconductor SMJD-3612048C-XXN1\_R1.1 boards with 48 LEDs each

**Ballast Desc:** One ERP PKB50W-1400-55-TD LED driver set at 930mA

**Lamp Output:** Total luminaire Lumens: 5034.3

**Max Candela:** 1,652.8 at Horizontal: 90°, Vertical: 0.5°

**Input Wattage:** 35

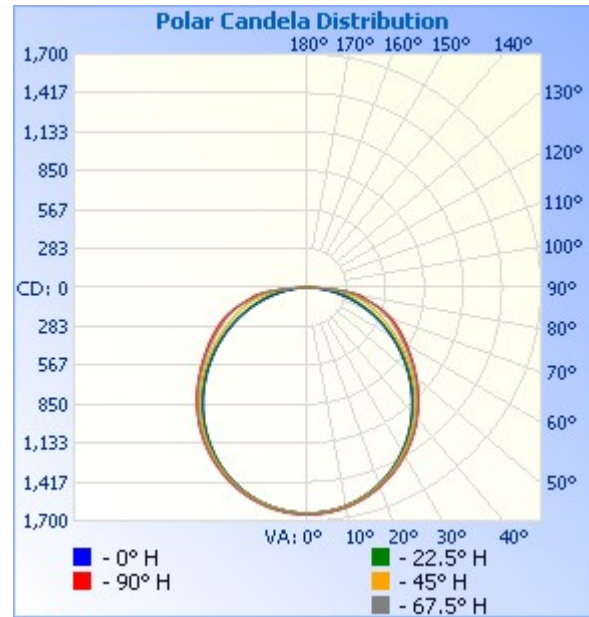
**Luminous Opening:** Rectangle (L: 47", W: 22.75")

**Test:** LLIA001463-021A-Extrapolated

**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:	0.7
Max Cd, 80 to <90 Deg:	412.8
	Lumens % Lamp
Downward Street Side:	2,517.2 50%
Downward House Side:	2,517.2 50%
Downward Total:	5,034.3 100%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	5,034.3 100%

**Flood Summary**

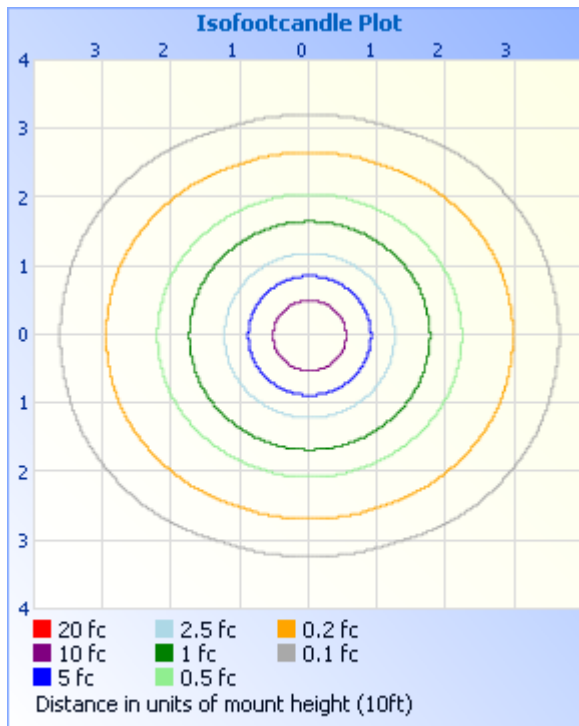
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.2%	4,992.9	173.4	163.4
Beam (50%):	70.6%	3,552.9	120.6	110.4
Total:	100%	5,032.9		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	1,278.0	25.4%
0-40	2,096.0	41.6%
0-60	3,737.0	74.2%
60-90	1,297.2	25.8%
70-100	650.0	12.9%
90-120	0.0	0%
0-90	5,034.3	100%
90-180	0.0	0%
0-180	5,034.3	100%

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	155.6	3.1%	90-100	0.0	0%
10-20	445.9	8.9%	100-110	0	0%
20-30	676.5	13.4%	110-120	0	0%
30-40	818.0	16.2%	120-130	0	0%
40-50	853.9	17.0%	130-140	0	0%
50-60	787.2	15.6%	140-150	0	0%
60-70	647.2	12.9%	150-160	0	0%
70-80	456.9	9.1%	160-170	0	0%
80-90	193.1	3.8%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	569 fc	4.9 ft	6.0 ft
3.3R	151 fc	9.5 ft	11.6 ft
5.0R	65.8 fc	14.4 ft	17.5 ft
6.7R	36.6 fc	19.3 ft	23.5 ft
8.3R	23.9 fc	23.9 ft	29.1 ft
10.0R	16.4 fc	28.8 ft	35.0 ft

■ Vert. Spread: 110.4°  
■ Horiz. Spread: 120.6°

**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	
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	1.00	
1	1.08	1.02	.97	.93	1.05	1.00	.96	.82	.96	.92	.89	.89	.92	.89	.86	.86	.88	.86	.83	.81	
2	.97	.88	.81	.75	.95	.86	.80	.68	.83	.77	.72	.72	.79	.75	.70	.70	.76	.72	.69	.67	
3	.88	.77	.69	.62	.86	.76	.68	.57	.73	.66	.60	.60	.70	.64	.59	.59	.67	.62	.58	.56	
4	.81	.68	.59	.52	.78	.67	.58	.49	.64	.57	.51	.51	.62	.55	.50	.50	.60	.54	.49	.47	
5	.74	.61	.51	.44	.72	.60	.51	.42	.57	.50	.44	.44	.55	.49	.43	.43	.54	.48	.43	.41	
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.38	.50	.43	.38	.38	.48	.42	.37	.35	
7	.63	.49	.40	.34	.62	.49	.40	.33	.47	.39	.34	.34	.46	.39	.33	.33	.44	.38	.33	.31	
8	.59	.45	.36	.30	.57	.44	.36	.30	.43	.35	.30	.30	.42	.35	.30	.30	.41	.34	.30	.28	
9	.55	.41	.33	.27	.54	.41	.33	.27	.40	.32	.27	.27	.39	.32	.27	.27	.37	.31	.27	.25	
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.29	.25	.25	.36	.29	.24	.24	.35	.29	.24	.23	

**Candela Table - Type C**

	0	22.5	45	67.5	90
0	1645	1645	1645	1645	1645
0.5	1642	1641	1642	1647	1653
1	1641	1641	1642	1647	1652
1.5	1641	1640	1641	1646	1652
2	1640	1640	1641	1646	1651
2.5	1640	1640	1640	1646	1651
3	1639	1639	1640	1645	1650
3.5	1638	1637	1639	1643	1649
4	1637	1637	1637	1643	1648
4.5	1635	1635	1636	1642	1647
5	1634	1634	1635	1640	1646

5.5	1632	1632	1634	1639	1644
6	1631	1631	1632	1637	1643
6.5	1629	1629	1630	1635	1641
7	1627	1627	1628	1633	1638
7.5	1624	1624	1626	1632	1637
8	1623	1622	1624	1629	1635
8.5	1620	1620	1621	1627	1632
9	1617	1617	1619	1625	1629
9.5	1615	1615	1616	1622	1627
10	1611	1611	1613	1620	1624
10.5	1608	1609	1611	1617	1621
11	1605	1605	1608	1614	1619
11.5	1602	1602	1605	1611	1616
12	1598	1598	1601	1608	1613
12.5	1595	1595	1597	1604	1609
13	1591	1591	1594	1601	1605
13.5	1587	1587	1590	1597	1602
14	1582	1583	1587	1593	1598
14.5	1579	1579	1582	1589	1595
15	1573	1574	1579	1586	1590
15.5	1569	1570	1573	1581	1586
16	1564	1565	1570	1577	1582
16.5	1560	1560	1565	1573	1577
17	1554	1555	1560	1568	1573
17.5	1549	1550	1555	1564	1568
18	1544	1545	1550	1559	1564
18.5	1538	1540	1545	1554	1559
19	1533	1534	1540	1549	1554
19.5	1528	1529	1534	1544	1549
20	1521	1522	1529	1538	1544
20.5	1515	1517	1523	1533	1538
21	1509	1511	1517	1528	1533
21.5	1503	1505	1511	1522	1527
22	1496	1498	1505	1516	1521
22.5	1490	1492	1499	1510	1515
23	1483	1485	1493	1504	1509
23.5	1477	1478	1486	1498	1503
24	1469	1471	1479	1492	1497
24.5	1462	1464	1473	1485	1490
25	1455	1457	1466	1479	1484
25.5	1447	1450	1459	1473	1477
26	1440	1443	1452	1466	1471
26.5	1432	1435	1445	1459	1464
27	1425	1428	1437	1452	1457
27.5	1417	1420	1431	1445	1450
28	1409	1412	1423	1438	1443
28.5	1401	1405	1415	1431	1436
29	1392	1396	1407	1423	1429
29.5	1384	1388	1399	1416	1421

30	1375	1379	1391	1408	1413
30.5	1367	1371	1383	1400	1406
31	1358	1362	1375	1392	1398
31.5	1349	1354	1367	1384	1391
32	1341	1345	1359	1377	1383
32.5	1331	1336	1350	1368	1374
33	1323	1327	1342	1360	1366
33.5	1313	1318	1332	1351	1357
34	1304	1308	1324	1343	1350
34.5	1294	1299	1315	1335	1340
35	1284	1289	1306	1326	1332
35.5	1275	1280	1297	1317	1324
36	1265	1271	1287	1308	1315
36.5	1255	1261	1279	1300	1306
37	1245	1251	1269	1290	1297
37.5	1235	1241	1260	1281	1288
38	1225	1230	1249	1272	1279
38.5	1214	1221	1240	1263	1270
39	1204	1210	1230	1253	1260
39.5	1193	1200	1220	1244	1251
40	1182	1190	1210	1233	1241
40.5	1172	1179	1201	1224	1231
41	1161	1169	1190	1214	1222
41.5	1150	1158	1180	1204	1212
42	1139	1147	1170	1195	1202
42.5	1129	1136	1159	1185	1192
43	1117	1126	1149	1174	1182
43.5	1106	1114	1138	1164	1172
44	1095	1103	1128	1154	1162
44.5	1083	1092	1117	1143	1152
45	1072	1081	1106	1134	1142
45.5	1060	1070	1096	1123	1131
46	1048	1058	1084	1113	1121
46.5	1037	1046	1074	1102	1110
47	1025	1035	1062	1091	1100
47.5	1014	1024	1051	1081	1089
48	1001	1012	1040	1070	1079
48.5	989	1000	1029	1059	1068
49	977	989	1017	1048	1057
49.5	965	976	1006	1037	1046
50	954	965	995	1026	1036
50.5	941	952	983	1015	1025
51	929	941	972	1004	1014
51.5	917	928	960	992	1003
52	905	917	949	981	993
52.5	893	904	937	971	982
53	880	892	925	960	972
53.5	868	880	914	948	961
54	856	867	902	938	952

54.5	843	856	890	927	941
55	830	843	878	916	931
55.5	818	831	866	905	921
56	805	818	855	895	911
56.5	793	806	843	884	901
57	780	793	831	874	890
57.5	767	781	819	864	880
58	754	768	807	853	870
58.5	742	756	796	842	861
59	730	743	784	832	851
59.5	716	730	772	822	841
60	704	718	760	812	831
60.5	691	705	748	802	822
61	679	693	737	791	813
61.5	665	680	725	782	803
62	652	668	714	772	794
62.5	640	655	703	762	784
63	627	642	692	752	775
63.5	615	630	682	743	766
64	601	617	671	733	756
64.5	589	605	660	724	747
65	576	592	649	714	738
65.5	564	580	638	705	729
66	550	567	628	695	720
66.5	537	555	617	686	711
67	525	542	607	676	701
67.5	512	530	596	668	692
68	499	518	586	658	684
68.5	486	505	576	649	673
69	474	493	566	639	665
69.5	461	481	556	630	655
70	449	469	546	620	645
70.5	436	457	536	610	634
71	424	445	526	601	624
71.5	411	432	516	590	613
72	398	421	507	580	602
72.5	386	409	497	569	590
73	374	398	487	558	579
73.5	361	386	478	547	567
74	349	374	467	535	554
74.5	336	363	458	524	542
75	323	352	447	510	529
75.5	312	341	438	498	515
76	299	331	427	485	502
76.5	287	320	416	473	489
77	274	309	405	459	476
77.5	262	299	393	446	463
78	250	288	382	432	451
78.5	238	278	369	419	440

79	226	268	357	408	430
79.5	215	258	344	397	421
80	202	248	331	387	413
80.5	191	237	317	378	404
81	179	228	304	370	396
81.5	167	218	292	361	386
82	156	208	281	352	374
82.5	145	198	271	340	356
83	133	187	261	324	338
83.5	122	176	252	307	319
84	111	164	242	288	299
84.5	100	151	228	268	279
85	88	139	211	247	256
85.5	77	127	194	225	234
86	67	117	175	202	209
86.5	56	106	155	177	182
87	46	95	133	150	154
87.5	35	79	109	121	123
88	25	63	84	90	92
88.5	16	45	56	58	59
89	8	25	28	26	25
89.5	2	7	5	3	3
90	0	0	0	0	1
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
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103	0	0	0	0	0

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126.5	0	0	0	0	0
127	0	0	0	0	0
127.5	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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153.5	0	0	0	0	0
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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] LLIA001463-021A-Extrapolated  
[TESTLAB] LightLab International Allentown, LLC  
[ISSUEDATE] 6/4/2021  
[MANUFAC] Saylite  
[LUMCAT] CBF24LY35WDMV30K  
[LUMINAIRE] Recessed mounted, formed steel housing, formed white enamel  
[MORE] steel reflectors, translucent white plastic center enclosure.  
[LAMP] 192 white LEDs, four Seoul Semiconductor SMJD-3612048C-XXN1\_R1.1  
[MORE] boards with 48 LEDs each  
[BALLAST] One ERP PKB50W-1400-55-TD LED driver set at 930mA  
[OTHER] 120.0Vac, 60.00Hz, 0.2917A, 35W  
[OTHER] This test was extrapolated.  
[MORE] Lamp lumens value was set to -1

FILE: CREATED USING ABSOLUTE PHOTOMETRY  
FILE: CANDELA MULTIPLIER: 0.7281  
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.