



Filename: CBF24LY35WDMV40K

Manufacturer: Saylite

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

Luminaire Cat: CBF24LY35WDMV40K

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: 5141.4

Max Candela: 1,688.0 at Horizontal: 90°, Vertical: 0.5°

Input Wattage: 35

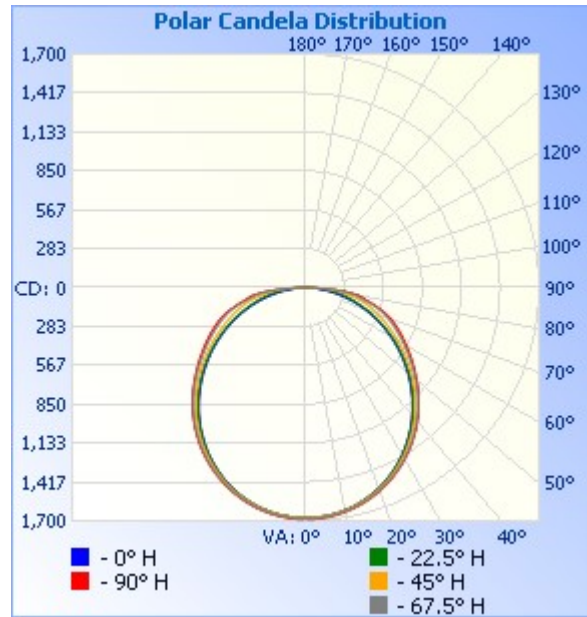
Luminous Opening: Rectangle (L: 47", W: 22.75")

Test: LLIA001463-021A-Extrapolated

Test Lab: LightLab International Allentown, LLC

Photometry : Type C

Nema Type: 7 X 7

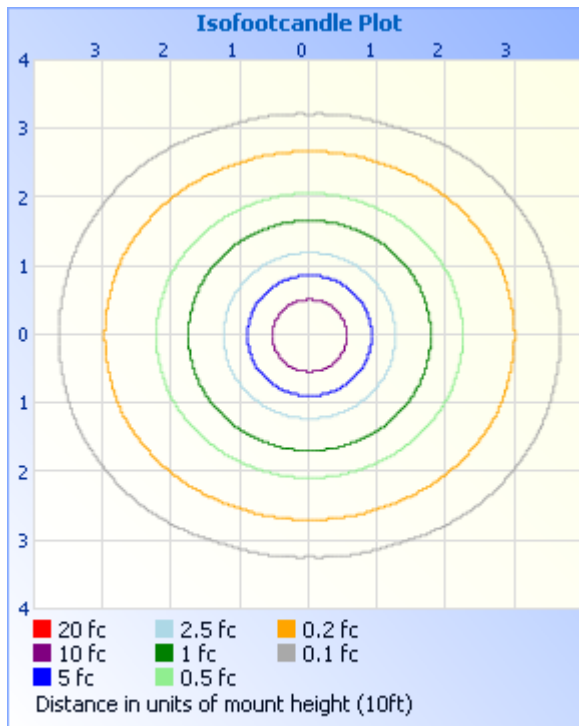


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0.7	
Max Cd, 80 to <90 Deg:	421.6	
	Lumens % Lamp	
Downward Street Side:	2,570.8	50%
Downward House Side:	2,570.8	50%
Downward Total:	5,141.5	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	5,141.5	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.2%	5,099.2	173.4	163.4
Beam (50%):	70.6%	3,628.5	120.6	110.4
Total:	100%	5,140.0		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,305.2	25.4%
0-40	2,140.6	41.6%
0-60	3,816.6	74.2%
60-90	1,324.8	25.8%
70-100	663.8	12.9%
90-120	0.0	0%
0-90	5,141.4	100%
90-180	0.0	0%
0-180	5,141.4	100%

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	158.9	3.1%	90-100	0.0	0%	
10-20	455.4	8.9%	100-110	0	0%	
20-30	690.9	13.4%	110-120	0	0%	
30-40	835.4	16.2%	120-130	0	0%	
40-50	872.1	17.0%	130-140	0	0%	
50-60	803.9	15.6%	140-150	0	0%	
60-70	661.0	12.9%	150-160	0	0%	
70-80	466.6	9.1%	160-170	0	0%	
80-90	197.2	3.8%	170-180	0	0%	



	Center Beam fc	Beam Width	
1.7R	581 fc	4.9 ft	6.0 ft
3.3R	154 fc	9.5 ft	11.6 ft
5.0R	67.2 fc	14.4 ft	17.5 ft
6.7R	37.4 fc	19.3 ft	23.5 ft
8.3R	24.4 fc	23.9 ft	29.1 ft
10.0R	16.8 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	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	1.08	1.02	.97	.93	1.05	1.00	.96	.82	.96	.92	.89	.92	.89	.86	.88	.86	.83	.81
2	.97	.88	.81	.75	.95	.86	.80	.68	.83	.77	.72	.79	.75	.70	.76	.72	.69	.67
3	.88	.77	.69	.62	.86	.76	.68	.57	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56
4	.81	.68	.59	.52	.78	.67	.58	.49	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47
5	.74	.61	.51	.44	.72	.60	.51	.42	.57	.50	.44	.55	.49	.43	.54	.48	.43	.41
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7	.63	.49	.40	.34	.62	.49	.40	.33	.47	.39	.34	.46	.39	.33	.44	.38	.33	.31
8	.59	.45	.36	.30	.57	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.28
9	.55	.41	.33	.27	.54	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.25
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.29	.25	.36	.29	.24	.35	.29	.24	.23

Candela Table - Type C

	0	22.5	45	67.5	90
0	1680	1680	1680	1680	1680
0.5	1677	1676	1677	1682	1688
1	1676	1676	1677	1682	1687
1.5	1676	1675	1676	1681	1687
2	1675	1675	1676	1681	1686
2.5	1675	1675	1675	1681	1686
3	1674	1674	1675	1680	1685
3.5	1673	1672	1674	1678	1684
4	1672	1672	1672	1678	1683
4.5	1670	1670	1671	1677	1682
5	1669	1669	1669	1675	1681

5.5	1667	1667	1669	1674	1679
6	1666	1666	1666	1672	1678
6.5	1663	1663	1665	1670	1676
7	1662	1662	1663	1668	1673
7.5	1659	1659	1660	1666	1672
8	1657	1657	1658	1664	1669
8.5	1655	1655	1656	1662	1667
9	1652	1652	1654	1660	1664
9.5	1649	1649	1651	1657	1662
10	1646	1646	1648	1655	1659
10.5	1643	1643	1646	1652	1656
11	1640	1640	1642	1649	1654
11.5	1636	1636	1639	1646	1650
12	1632	1632	1635	1642	1647
12.5	1628	1628	1631	1638	1643
13	1625	1625	1628	1635	1640
13.5	1620	1621	1624	1631	1636
14	1616	1617	1620	1627	1632
14.5	1612	1612	1616	1623	1628
15	1607	1608	1612	1620	1624
15.5	1602	1603	1607	1615	1620
16	1597	1599	1603	1611	1616
16.5	1593	1594	1598	1606	1611
17	1588	1588	1593	1602	1607
17.5	1582	1583	1588	1597	1601
18	1577	1578	1583	1592	1597
18.5	1571	1573	1578	1588	1592
19	1565	1567	1573	1582	1587
19.5	1560	1562	1567	1577	1582
20	1553	1555	1562	1571	1576
20.5	1547	1550	1556	1566	1570
21	1541	1543	1550	1560	1565
21.5	1535	1537	1543	1554	1559
22	1528	1530	1537	1548	1553
22.5	1521	1524	1531	1542	1547
23	1515	1517	1524	1536	1541
23.5	1508	1510	1518	1530	1535
24	1500	1503	1511	1524	1529
24.5	1493	1495	1504	1517	1522
25	1486	1488	1498	1511	1515
25.5	1478	1481	1490	1504	1509
26	1471	1474	1483	1497	1502
26.5	1463	1466	1476	1490	1495
27	1455	1458	1468	1483	1488
27.5	1447	1450	1461	1476	1481
28	1439	1442	1453	1469	1474
28.5	1431	1434	1446	1461	1466
29	1422	1425	1437	1454	1459
29.5	1414	1417	1429	1446	1452

30	1405	1408	1421	1438	1443
30.5	1396	1400	1413	1430	1436
31	1387	1391	1405	1422	1428
31.5	1378	1382	1396	1414	1420
32	1370	1373	1388	1406	1412
32.5	1359	1365	1379	1397	1403
33	1351	1355	1370	1389	1395
33.5	1341	1346	1361	1380	1386
34	1332	1336	1352	1372	1379
34.5	1321	1327	1343	1363	1369
35	1312	1317	1334	1354	1361
35.5	1302	1307	1324	1345	1352
36	1292	1298	1315	1336	1343
36.5	1282	1288	1306	1327	1334
37	1272	1278	1296	1318	1324
37.5	1261	1267	1286	1309	1315
38	1251	1257	1276	1299	1306
38.5	1240	1247	1266	1289	1297
39	1229	1236	1256	1280	1286
39.5	1219	1225	1246	1270	1278
40	1208	1215	1236	1260	1267
40.5	1197	1204	1226	1250	1257
41	1186	1193	1216	1240	1248
41.5	1175	1182	1205	1230	1237
42	1163	1172	1195	1220	1228
42.5	1153	1160	1184	1210	1217
43	1141	1150	1173	1199	1207
43.5	1130	1138	1162	1189	1197
44	1118	1127	1152	1179	1187
44.5	1106	1115	1141	1167	1176
45	1095	1104	1130	1158	1166
45.5	1083	1092	1119	1147	1156
46	1071	1080	1107	1136	1144
46.5	1059	1069	1097	1125	1134
47	1047	1057	1085	1114	1124
47.5	1035	1046	1074	1104	1112
48	1022	1034	1062	1092	1102
48.5	1011	1022	1051	1081	1091
49	998	1010	1039	1070	1080
49.5	986	997	1028	1059	1069
50	974	985	1016	1048	1058
50.5	961	973	1004	1037	1047
51	949	961	993	1025	1036
51.5	936	948	981	1014	1025
52	924	936	969	1002	1014
52.5	912	923	957	991	1003
53	899	911	945	980	993
53.5	886	898	933	968	982
54	874	886	921	958	972

54.5	861	874	909	947	961
55	848	861	897	935	951
55.5	836	848	885	924	941
56	822	835	873	914	930
56.5	810	823	861	903	920
57	796	810	848	892	909
57.5	784	797	837	882	899
58	770	784	825	871	889
58.5	758	772	813	860	879
59	745	759	801	850	869
59.5	732	746	788	840	859
60	719	733	776	829	849
60.5	706	720	764	819	840
61	693	708	753	808	830
61.5	680	695	741	799	820
62	666	682	729	788	811
62.5	654	668	718	779	801
63	640	656	707	768	791
63.5	628	643	696	758	782
64	614	631	685	749	772
64.5	602	618	674	739	763
65	588	605	663	729	754
65.5	576	592	651	720	744
66	562	579	641	710	735
66.5	549	567	630	700	726
67	536	554	619	691	716
67.5	523	541	609	682	707
68	510	529	599	672	698
68.5	497	516	588	663	688
69	484	503	578	653	679
69.5	471	491	568	643	668
70	458	479	558	634	659
70.5	445	466	547	623	648
71	433	454	538	613	637
71.5	419	442	527	603	626
72	407	430	518	593	615
72.5	394	418	508	581	603
73	381	406	497	570	591
73.5	369	394	488	558	579
74	356	382	477	547	566
74.5	343	371	468	535	553
75	330	360	457	521	540
75.5	318	349	447	509	526
76	305	338	436	495	513
76.5	293	326	425	483	500
77	280	316	413	469	486
77.5	268	306	402	455	473
78	256	294	390	442	461
78.5	243	284	377	428	449

79	231	274	364	416	439
79.5	219	263	351	405	430
80	207	253	338	396	422
80.5	195	242	323	386	413
81	183	233	310	378	405
81.5	171	222	298	369	394
82	159	213	287	359	381
82.5	148	202	277	347	364
83	136	191	267	331	345
83.5	124	180	257	313	326
84	113	167	247	294	306
84.5	102	155	233	274	285
85	90	142	216	252	262
85.5	79	130	198	230	239
86	68	120	179	206	213
86.5	57	109	158	181	186
87	47	97	136	153	158
87.5	36	81	112	123	126
88	26	65	86	92	94
88.5	16	46	57	59	60
89	8	26	29	27	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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126.5	0	0	0	0	0
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166.5	0	0	0	0	0
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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] LLIA001463-021A-Extrapolated
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 6/4/2021
 [MANUFAC] Saylite
 [LUMCAT] CBF24LY35WDMV40K
 [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, 0.990PF
 [OTHER] This test was extrapolated
 [MORE] Lamp lumens value was set to -1

FILE: CREATED USING ABSOLUTE PHOTOMETRY
 FILE: CANDELA MULTIPLIER: 0.7436
 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.