



Filename: CBF24LY25WDMV50K

Manufacturer: Saylite

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

Luminaire Cat: CBF24LY25WDMV50K

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 1400mA

Lamp Output: Total luminaire Lumens: 3761.6

Max Candela: 1,234.9 at Horizontal: 90°, Vertical: 0.5°

Input Wattage: 25

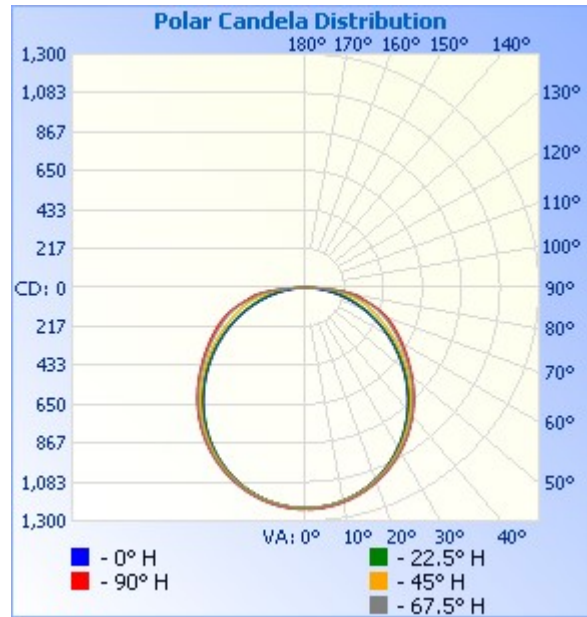
Luminous Opening: Rectangle (L: 47", W: 22.75")

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:	0.5	
Max Cd, 80 to <90 Deg:	308.5	
	Lumens % Lamp	
Downward Street Side:	1,880.8	50%
Downward House Side:	1,880.8	50%
Downward Total:	3,761.6	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	3,761.6	100%

Flood Summary

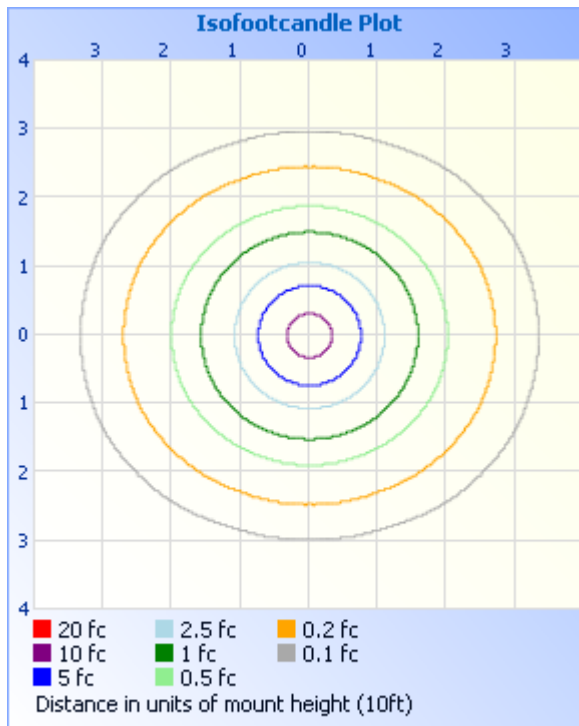
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.2%	3,730.6	173.4	163.4
Beam (50%):	70.6%	2,654.7	120.6	110.4
Total:	100%	3,760.5		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	954.9	25.4%
0-40	1,566.1	41.6%
0-60	2,792.3	74.2%
60-90	969.3	25.8%
70-100	485.7	12.9%
90-120	0.0	0%
0-90	3,761.6	100%
90-180	0.0	0%
0-180	3,761.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	116.3	3.1%	90-100	0.0	0%
10-20	333.2	8.9%	100-110	0	0%
20-30	505.5	13.4%	110-120	0	0%
30-40	611.2	16.2%	120-130	0	0%
40-50	638.0	17.0%	130-140	0	0%
50-60	588.2	15.6%	140-150	0	0%
60-70	483.6	12.9%	150-160	0	0%
70-80	341.4	9.1%	160-170	0	0%
80-90	144.3	3.8%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	425 fc	4.9 ft	6.0 ft
3.3R	113 fc	9.5 ft	11.6 ft
5.0R	49.2 fc	14.4 ft	17.5 ft
6.7R	27.4 fc	19.3 ft	23.5 ft
8.3R	17.8 fc	23.9 ft	29.1 ft
10.0R	12.3 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	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	.95	.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	.73	.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	1229	1229	1229	1229	1229
0.5	1227	1226	1227	1231	1235
1	1226	1226	1227	1231	1234
1.5	1226	1226	1226	1230	1234
2	1226	1226	1226	1230	1234
2.5	1225	1225	1226	1230	1233
3	1225	1225	1225	1229	1233
3.5	1224	1224	1225	1228	1232
4	1223	1223	1224	1227	1231
4.5	1222	1222	1222	1227	1231
5	1221	1221	1221	1225	1230

5.5	1220	1220	1221	1225	1228
6	1219	1219	1219	1223	1227
6.5	1217	1217	1218	1222	1226
7	1216	1216	1216	1220	1224
7.5	1214	1214	1215	1219	1223
8	1213	1212	1213	1218	1221
8.5	1210	1210	1212	1216	1220
9	1208	1208	1210	1214	1218
9.5	1207	1207	1208	1212	1216
10	1204	1204	1206	1210	1214
10.5	1202	1202	1204	1208	1212
11	1200	1200	1201	1206	1210
11.5	1197	1197	1199	1204	1207
12	1194	1194	1196	1201	1205
12.5	1191	1191	1194	1198	1202
13	1189	1189	1191	1196	1200
13.5	1185	1186	1188	1194	1197
14	1182	1183	1185	1190	1194
14.5	1179	1179	1182	1188	1191
15	1176	1176	1179	1185	1188
15.5	1172	1173	1176	1182	1185
16	1169	1170	1173	1178	1182
16.5	1165	1166	1169	1175	1178
17	1162	1162	1165	1172	1176
17.5	1158	1158	1162	1169	1171
18	1154	1154	1158	1165	1169
18.5	1150	1151	1154	1162	1165
19	1145	1146	1151	1157	1161
19.5	1141	1142	1146	1154	1157
20	1136	1138	1142	1150	1153
20.5	1132	1134	1138	1146	1149
21	1127	1129	1134	1141	1145
21.5	1123	1125	1129	1137	1141
22	1118	1120	1125	1133	1136
22.5	1113	1115	1120	1128	1132
23	1108	1110	1115	1124	1128
23.5	1103	1104	1110	1120	1123
24	1097	1099	1105	1115	1119
24.5	1092	1094	1101	1110	1114
25	1087	1089	1096	1105	1109
25.5	1082	1084	1090	1101	1104
26	1076	1078	1085	1095	1099
26.5	1070	1072	1080	1090	1094
27	1065	1067	1074	1085	1089
27.5	1059	1061	1069	1080	1084
28	1053	1055	1063	1074	1078
28.5	1047	1049	1058	1069	1073
29	1040	1043	1052	1064	1067
29.5	1034	1037	1046	1058	1062

30	1028	1030	1040	1052	1056
30.5	1022	1024	1034	1046	1051
31	1015	1018	1028	1040	1045
31.5	1008	1011	1021	1034	1039
32	1002	1005	1015	1029	1033
32.5	994	998	1009	1022	1027
33	989	991	1003	1016	1021
33.5	981	985	996	1010	1014
34	974	978	989	1004	1009
34.5	967	971	983	997	1002
35	960	963	976	991	996
35.5	953	956	969	984	989
36	945	949	962	978	983
36.5	938	942	955	971	976
37	930	935	948	964	969
37.5	923	927	941	957	962
38	915	919	934	950	955
38.5	907	912	926	943	949
39	899	904	919	936	941
39.5	892	897	912	929	935
40	884	889	904	922	927
40.5	876	881	897	915	920
41	868	873	889	907	913
41.5	860	865	881	900	905
42	851	857	874	893	898
42.5	843	849	866	885	891
43	835	841	858	878	883
43.5	826	832	850	870	876
44	818	824	843	862	868
44.5	809	816	835	854	861
45	801	807	826	847	853
45.5	792	799	819	839	845
46	783	790	810	831	837
46.5	775	782	802	823	830
47	766	774	794	815	822
47.5	757	765	786	807	814
48	748	756	777	799	806
48.5	739	747	769	791	798
49	730	739	760	783	790
49.5	721	730	752	775	782
50	713	721	743	767	774
50.5	703	712	734	758	766
51	694	703	726	750	758
51.5	685	694	718	742	750
52	676	685	709	733	742
52.5	667	675	700	725	734
53	658	666	691	717	726
53.5	648	657	683	708	718
54	639	648	674	701	711

54.5	630	639	665	693	703
55	620	630	656	684	696
55.5	611	621	647	676	688
56	602	611	639	669	681
56.5	592	602	630	660	673
57	583	592	621	653	665
57.5	573	583	612	645	658
58	564	574	603	637	650
58.5	554	565	595	629	643
59	545	555	586	622	636
59.5	535	546	577	614	628
60	526	536	568	607	621
60.5	516	527	559	599	614
61	507	518	551	591	607
61.5	497	508	542	584	600
62	487	499	534	577	593
62.5	478	489	526	570	586
63	468	480	517	562	579
63.5	459	471	509	555	572
64	449	461	501	548	565
64.5	440	452	493	541	558
65	430	442	485	534	552
65.5	421	433	477	527	545
66	411	424	469	520	538
66.5	401	415	461	512	531
67	392	405	453	505	524
67.5	382	396	446	499	517
68	373	387	438	492	511
68.5	363	378	430	485	503
69	354	368	423	478	497
69.5	344	359	416	471	489
70	335	350	408	464	482
70.5	326	341	400	456	474
71	317	332	393	449	466
71.5	307	323	386	441	458
72	298	314	379	434	450
72.5	288	306	372	425	441
73	279	297	364	417	433
73.5	270	288	357	409	424
74	261	280	349	400	414
74.5	251	271	342	391	405
75	242	263	334	381	395
75.5	233	255	327	372	385
76	223	247	319	362	375
76.5	214	239	311	353	366
77	205	231	302	343	356
77.5	196	224	294	333	346
78	187	215	285	323	337
78.5	178	208	276	313	329

79	169	200	267	305	322
79.5	160	193	257	296	314
80	151	185	247	289	308
80.5	143	177	237	282	302
81	134	170	227	276	296
81.5	125	163	218	270	288
82	116	156	210	263	279
82.5	108	148	202	254	266
83	100	140	195	242	252
83.5	91	132	188	229	238
84	83	122	181	215	224
84.5	75	113	170	200	208
85	66	104	158	184	191
85.5	58	95	145	168	175
86	50	88	131	151	156
86.5	42	79	116	132	136
87	34	71	100	112	115
87.5	26	59	82	90	92
88	19	47	63	67	69
88.5	12	34	42	44	44
89	6	19	21	20	18
89.5	2	5	4	2	2
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
92.5	0	0	0	0	0
93	0	0	0	0	0
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103	0	0	0	0	0

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119.5	0	0	0	0	0
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120.5	0	0	0	0	0
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126.5	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	0	0	0	0	0
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154	0	0	0	0	0
154.5	0	0	0	0	0
155	0	0	0	0	0
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156	0	0	0	0	0
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158	0	0	0	0	0
158.5	0	0	0	0	0
159	0	0	0	0	0
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160	0	0	0	0	0
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163.5	0	0	0	0	0
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165.5	0	0	0	0	0
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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] LLIA001463-021A-Extrapolated
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 6/4/2021
 [MANUFAC] Saylite
 [LUMCAT] CBF24LY25WDMV50K
 [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 1400mA
 [OTHER] 120.0Vac, 60.00Hz, 0.4486A, 53.27W, 0.990PF, 12.2%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: 0.54403
 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.