



Filename: CBF24LY20WDMV50K

Manufacturer: Saylite

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

Luminaire Cat: CBF24LY20WDMV50K

Lamp: 192 white LEDs, four Seoul Semiconductor SMJD-3612048C-XXN1_R1.1 boards with 48 LEDs each

Ballast Desc: One ERP PKB30W-1050-55-TD LED driver set at 540mA

Lamp Output: Total luminaire Lumens: 3048.7

Max Candela: 1,000.9 at Horizontal: 90°, Vertical: 0.5°

Input Wattage: 20.14

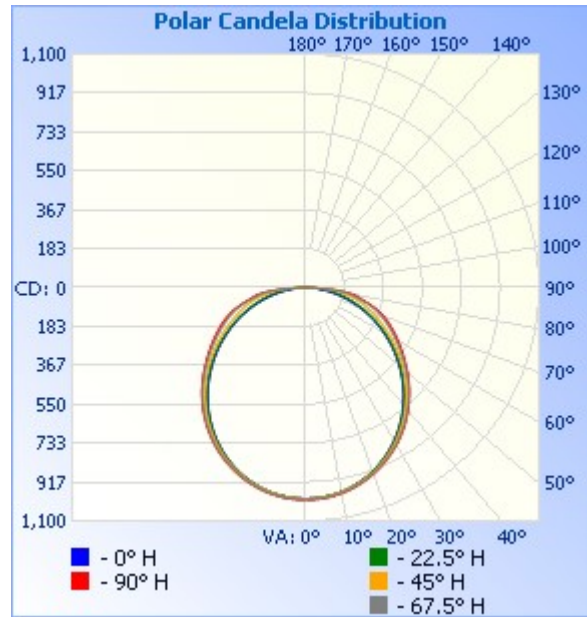
Luminous Opening: Rectangle (L: 47", W: 22.75")

Test: LLIA001463-021A-Extrapolated

Test Lab: LightLab International Allentown, LLC

Photometry : Type C

Nema Type: 7 X 7

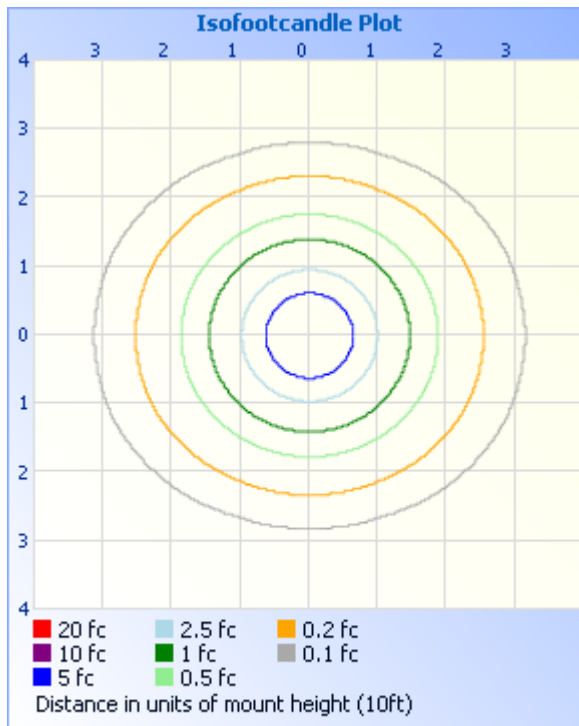


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0.4	
Max Cd, 80 to <90 Deg:	250.0	
	Lumens % Lamp	
Downward Street Side:	1,524.4	50%
Downward House Side:	1,524.4	50%
Downward Total:	3,048.7	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	3,048.7	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.2%	3,023.6	173.4	163.4
Beam (50%):	70.6%	2,151.6	120.6	110.4
Total:	100%	3,047.8		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	773.9	25.4%
0-40	1,269.3	41.6%
0-60	2,263.1	74.2%
60-90	785.6	25.8%
70-100	393.6	12.9%
90-120	0.0	0%
0-90	3,048.7	100%
90-180	0.0	0%
0-180	3,048.7	100%

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	94.2	3.1%	90-100	0.0	0%	
10-20	270.0	8.9%	100-110	0	0%	
20-30	409.7	13.4%	110-120	0	0%	
30-40	495.4	16.2%	120-130	0	0%	
40-50	517.1	17.0%	130-140	0	0%	
50-60	476.7	15.6%	140-150	0	0%	
60-70	392.0	12.9%	150-160	0	0%	
70-80	276.7	9.1%	160-170	0	0%	
80-90	116.9	3.8%	170-180	0	0%	



	Center Beam fc	Beam Width	
1.7R	345 fc	4.9 ft	6.0 ft
3.3R	91.5 fc	9.5 ft	11.6 ft
5.0R	39.8 fc	14.4 ft	17.5 ft
6.7R	22.2 fc	19.3 ft	23.5 ft
8.3R	14.5 fc	23.9 ft	29.1 ft
10.0R	9.96 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	996	996	996	996	996
0.5	994	994	994	997	1001
1	994	994	994	997	1000
1.5	994	993	994	997	1000
2	993	993	994	997	1000
2.5	993	993	993	996	1000
3	993	993	993	996	999
3.5	992	992	993	995	999
4	991	991	992	995	998
4.5	990	990	991	994	997
5	989	989	990	993	996

5.5	989	989	989	993	996
6	988	988	988	991	995
6.5	986	986	987	990	994
7	985	985	986	989	992
7.5	984	984	985	988	991
8	983	982	983	987	990
8.5	981	981	982	985	989
9	979	979	981	984	987
9.5	978	978	979	982	985
10	976	976	977	981	984
10.5	974	974	976	979	982
11	972	972	974	978	981
11.5	970	970	972	976	978
12	968	968	970	974	977
12.5	966	966	967	971	974
13	963	963	965	970	972
13.5	961	961	963	967	970
14	958	959	961	965	968
14.5	956	956	958	963	966
15	953	953	956	960	963
15.5	950	951	953	958	960
16	947	948	951	955	958
16.5	944	945	948	952	955
17	941	942	944	950	953
17.5	938	939	942	947	949
18	935	936	939	944	947
18.5	932	933	936	941	944
19	928	929	933	938	941
19.5	925	926	929	935	938
20	921	922	926	932	935
20.5	918	919	922	929	931
21	914	915	919	925	928
21.5	910	911	915	922	925
22	906	907	911	918	921
22.5	902	903	908	914	918
23	898	899	904	911	914
23.5	894	895	900	907	910
24	889	891	896	903	907
24.5	885	887	892	899	903
25	881	882	888	896	899
25.5	877	878	884	892	895
26	872	874	879	888	891
26.5	867	869	875	884	887
27	863	865	870	879	882
27.5	858	860	866	875	878
28	853	855	862	871	874
28.5	848	851	857	866	870
29	843	845	852	862	865
29.5	838	840	847	858	861

30	833	835	843	853	856
30.5	828	830	838	848	851
31	822	825	833	843	847
31.5	817	820	828	838	842
32	812	814	823	834	837
32.5	806	809	817	828	832
33	801	803	813	824	827
33.5	795	798	807	818	822
34	790	792	802	814	817
34.5	784	787	796	808	812
35	778	781	791	803	807
35.5	772	775	785	798	802
36	766	769	780	792	796
36.5	760	764	774	787	791
37	754	758	769	781	785
37.5	748	751	763	776	780
38	742	745	757	770	774
38.5	735	739	751	765	769
39	729	733	745	759	763
39.5	723	727	739	753	758
40	716	720	733	747	751
40.5	710	714	727	741	746
41	703	708	721	735	740
41.5	697	701	714	729	734
42	690	695	709	724	728
42.5	683	688	702	717	722
43	676	682	696	711	716
43.5	670	675	689	705	710
44	663	668	683	699	704
44.5	656	661	676	692	698
45	649	654	670	687	691
45.5	642	648	664	680	685
46	635	641	657	674	679
46.5	628	634	650	667	672
47	621	627	643	661	666
47.5	614	620	637	654	660
48	606	613	630	648	653
48.5	599	606	623	641	647
49	592	599	616	634	640
49.5	585	591	609	628	634
50	578	584	602	621	627
50.5	570	577	595	615	621
51	563	570	589	608	614
51.5	555	562	582	601	608
52	548	555	575	594	601
52.5	541	547	567	588	595
53	533	540	560	581	589
53.5	526	533	553	574	582
54	518	525	546	568	576

54.5	511	518	539	561	570
55	503	511	532	555	564
55.5	496	503	525	548	558
56	488	495	518	542	552
56.5	480	488	511	535	545
57	472	480	503	529	539
57.5	465	473	496	523	533
58	457	465	489	516	527
58.5	449	458	482	510	521
59	442	450	475	504	515
59.5	434	442	467	498	509
60	426	435	460	492	504
60.5	418	427	453	485	498
61	411	420	446	479	492
61.5	403	412	439	474	486
62	395	404	433	467	481
62.5	388	396	426	462	475
63	380	389	419	455	469
63.5	372	381	413	450	464
64	364	374	406	444	458
64.5	357	366	399	438	452
65	349	358	393	433	447
65.5	341	351	386	427	441
66	333	343	380	421	436
66.5	325	336	373	415	430
67	318	328	367	410	425
67.5	310	321	361	404	419
68	302	313	355	399	414
68.5	295	306	349	393	408
69	287	299	343	387	403
69.5	279	291	337	381	396
70	272	284	331	376	391
70.5	264	276	325	369	384
71	257	269	319	364	378
71.5	249	262	313	358	371
72	241	255	307	351	365
72.5	234	248	301	345	358
73	226	241	295	338	351
73.5	219	234	289	331	343
74	211	227	283	324	336
74.5	203	220	277	317	328
75	196	213	271	309	320
75.5	189	207	265	302	312
76	181	200	258	294	304
76.5	174	194	252	286	296
77	166	187	245	278	288
77.5	159	181	238	270	280
78	152	175	231	262	273
78.5	144	168	224	254	266

79	137	162	216	247	261
79.5	130	156	208	240	255
80	123	150	200	235	250
80.5	116	144	192	229	245
81	108	138	184	224	240
81.5	101	132	177	219	234
82	94	126	170	213	226
82.5	88	120	164	206	216
83	81	113	158	196	205
83.5	74	107	153	186	193
84	67	99	146	174	181
84.5	60	92	138	162	169
85	53	84	128	149	155
85.5	47	77	117	136	142
86	41	71	106	122	127
86.5	34	64	94	107	110
87	28	57	81	91	93
87.5	21	48	66	73	75
88	15	38	51	55	56
88.5	10	27	34	35	36
89	5	15	17	16	15
89.5	1	4	3	2	2
90	0	0	0	0	0
90.5	0	0	0	0	0
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92.5	0	0	0	0	0
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127.5	0	0	0	0	0

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153.5	0	0	0	0	0
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154.5	0	0	0	0	0
155	0	0	0	0	0
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156	0	0	0	0	0
156.5	0	0	0	0	0
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173.5	0	0	0	0	0
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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] CBF24LY20WDMV50K
 [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 PKB30W-1050-55-TD LED driver set at 540mA
 [OTHER] 120.0Vac, 60.00Hz, 0.1667A, 20W
 [OTHER] This test was extrapolated.
 [MORE] Lamp lumens value was set to -1

FILE: CREATED USING ABSOLUTE PHOTOMETRY
 FILE: CANDELA MULTIPLIER: 0.440925
 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.