

REPORT NUMBER: RAB00431

PAGE: 1 OF 5

ISSUE DATE: 02/26/14

CATALOG NUMBER: BAYLED78NW+GDBAYLED78FP (with standoffs installed)

LUMINAIRE: CAST 2-PIECE WHITE PAINTED FINNED METAL HOUSING, 3 FLAT METAL HEAT SINKS WITH 3 EXTRUDED METAL HEAT SINKS, 3 CIRCUIT BOARDS EACH WITH 1 LED AND MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, MOLDED PLASTIC TRIM WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST WHITE PAINTED METAL LENS FRAME, WITH FROSTED POLYSHIELD IN FRONT HOLDED BY 4 METAL SHAFTS.

\*(SEE PAGE 2 FOR MORE INFORMATION)\*

CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	2623	2623	2623	2623	2623	
5	2628	2625	2580	2626	2627	247
15	2469	2463	2459	2463	2464	686
25	2131	2135	2127	2132	2135	969
35	1709	1707	1701	1670	1711	1057
45	1260	1266	1260	1238	1262	962
55	914	885	868	849	890	788
65	566	686	601	570	668	601
75	758	351	399	587	343	516
85	124	128	126	123	136	181
90	15	19	19	18	18	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1902	31.7
0- 40	2960	49.2
0- 60	4709	78.4
0- 90	6010	100.0
90-180	0	0.0
0-180	6010	100.0

TOTAL INPUT WATTS = 88.8

EFFICACY = 67.7 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

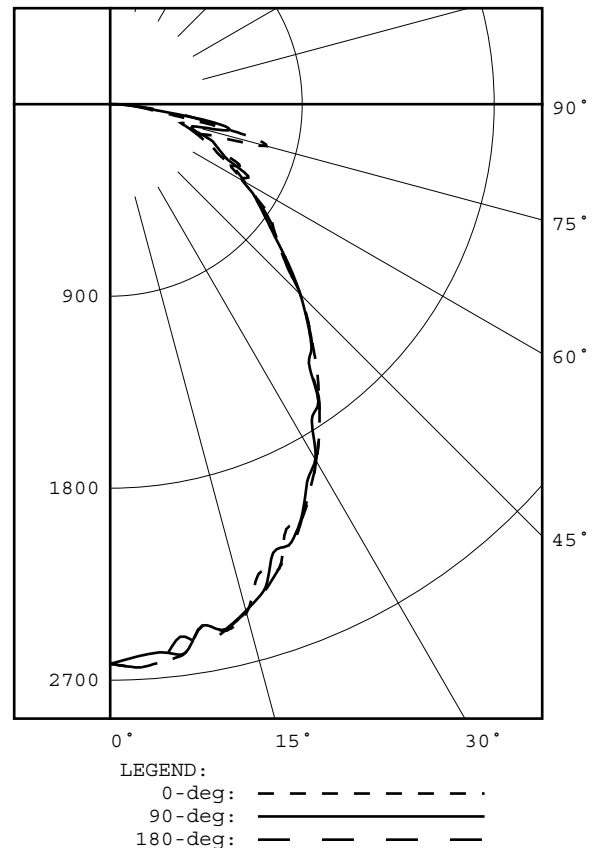
SPACING CRITERIA : 1.1 1.1 1.1

LUMINOUS DIAMETER: 12.500

HEIGHT OF SIDE : 1.378

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	90-DEG	180-DEG
45	19729.	19729.	19760.
55	16760.	15916.	16320.
65	12997.	13801.	15340.
75	24266.	12773.	10981.
85	6898.	7009.	7565.



Checked Echo  
 Approved (null)

REPORT NUMBER: RAB00431

PAGE: 2 OF 5

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### ADDITIONAL INFORMATION

LAMP: THREE WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), TILTED  
30-DEGREES FROM VERTICAL BASE-UP POSITION.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS: 88.755 W AT 120.0 VOLTS

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE: 28.25 FEET

PREPARED FOR: RAB LIGHTING, INC

LED DRIVER: THREE RAB RDF25U7-02

REPORT NUMBER: RAB00431

PAGE: 3 OF 5

ISSUE DATE: 02/26/14

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### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	2623	2623	2623	2623	2623	2623	2623	2623	2623
2.5	2642	2597	2595	2641	2595	2596	2641	2552	2642
5.0	2628	2626	2625	2625	2580	2626	2626	2627	2627
7.5	2605	2604	2602	2602	2601	2561	2603	2605	2518
10.0	2484	2570	2484	2569	2482	2528	2570	2528	2570
12.5	2527	2483	2437	2478	2518	2524	2522	2484	2522
15.0	2469	2464	2463	2459	2459	2422	2463	2425	2464
17.5	2310	2396	2350	2389	2393	2393	2395	2356	2398
20.0	2317	2281	2312	2273	2236	2234	2271	2314	2315
22.5	2157	2197	2226	2152	2222	2224	2190	2195	2238
25.0	2131	2069	2135	2062	2127	2055	2132	2136	2135
27.5	2031	2041	1966	2001	1999	1998	2033	2039	2040
30.0	1933	1905	1903	1894	1923	1929	1897	1905	1931
32.5	1824	1829	1819	1822	1759	1814	1763	1823	1821
35.0	1709	1717	1707	1678	1701	1704	1670	1657	1711
37.5	1596	1595	1597	1589	1530	1590	1586	1597	1537
40.0	1478	1461	1457	1452	1467	1453	1447	1485	1475
42.5	1371	1345	1349	1339	1364	1315	1337	1371	1368
45.0	1260	1225	1266	1237	1260	1216	1238	1241	1262
47.5	1127	1165	1163	1138	1150	1116	1151	1160	1124
50.0	1034	1034	1068	1044	1039	1030	1003	1064	1061
52.5	968	958	960	973	946	967	966	949	975
55.0	914	891	885	882	868	885	849	880	890
57.5	809	793	805	793	802	793	798	785	800
60.0	729	751	730	728	715	758	766	706	722
62.5	661	696	687	679	728	635	682	686	641
65.0	566	572	686	676	601	570	570	647	668
67.5	514	521	521	521	550	510	511	546	512
70.0	449	570	446	467	512	443	449	465	451
72.5	472	491	397	402	422	508	534	394	396
75.0	758	453	351	361	399	680	587	344	343
77.5	613	558	597	585	568	583	577	553	498
80.0	307	429	543	559	496	347	402	497	453
82.5	177	190	276	323	226	176	187	239	290
85.0	124	128	128	132	126	121	123	118	136
87.5	70	74	69	76	68	71	65	69	77
90.0	15	21	19	22	19	18	18	16	18

REPORT NUMBER: RAB00431

PAGE: 4 OF 5

ISSUE DATE: 02/26/14

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### 5-DEGREE

#### ZONAL LUMEN SUMMARY

0- 5	63
5- 10	185
10- 15	296
15- 20	391
20- 25	460
25- 30	509
30- 35	531
35- 40	527
40- 45	500
45- 50	462
50- 55	418
55- 60	371
60- 65	330
65- 70	271
70- 75	240
75- 80	276
80- 85	142
85- 90	39
90- 95	3
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

### 10-DEGREE

#### ZONAL LUMEN SUMMARY

0- 10	247
0- 20	933
0- 30	1902
0- 40	2960
0- 50	3921
0- 60	4709
0- 70	5310
0- 80	5826
0- 90	6007
0-100	6010
0-110	6010
0-120	6010
0-130	6010
0-140	6010
0-150	6010
0-160	6010
0-170	6010
0-180	6010

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PAGE: 5 OF 5

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### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.