

REPORT NUMBER: SCALED FROM RAB00431

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ISSUE DATE: 05/22/14

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: BAYLED78W+GDBAYLED78FP (with standoffs installed)

LUMINAIRE: CAST 2-PIECE WHITE PAINTED FINNDED 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	2541	2541	2541	2541	2541	
5	2546	2543	2499	2544	2545	239
15	2392	2386	2382	2386	2387	665
25	2064	2068	2060	2065	2068	939
35	1656	1654	1648	1618	1657	1024
45	1221	1226	1221	1199	1222	932
55	885	857	841	822	862	764
65	548	665	582	552	647	582
75	734	340	387	569	332	500
85	120	124	122	119	132	175
90	15	18	18	17	17	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1843	31.7
0- 40	2867	49.2
0- 60	4562	78.4
0- 90	5822	100.0
90-180	0	0.0
0-180	5822	100.0

TOTAL INPUT WATTS = 88.7

EFFICACY = 65.6 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

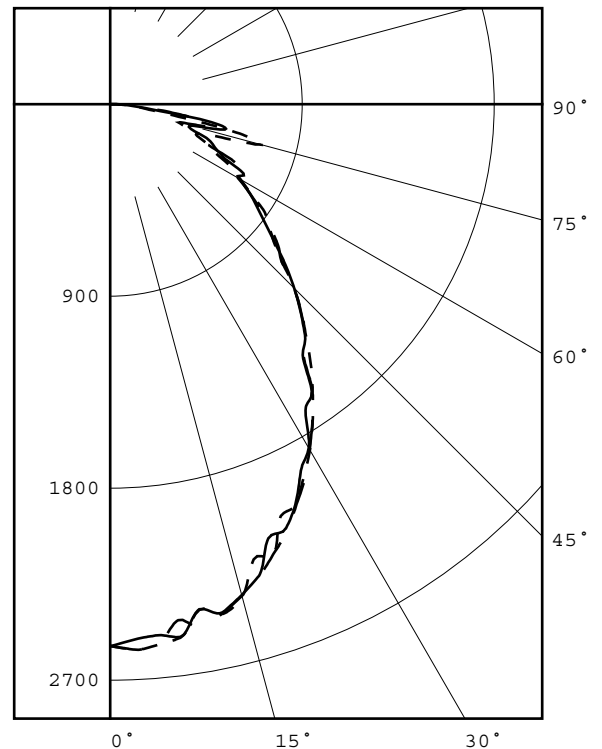
SPACING CRITERIA : 1.1 1.1 1.1

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	19112.	19112.	19142.
55	16235.	15418.	15809.
65	12591.	13369.	14859.
75	23507.	12373.	10637.
85	6682.	6789.	7328.



LEGEND:
 0-deg: - - - - -
 90-deg: - - - - -
 180-deg: - - - - -

Checked ECHO
 Approved (null)

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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: 88.7 W AT 120.0 VOLTS

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE: 28.25 FEET

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LED DRIVER: THREE RAB RDF25U7-02

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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	2541	2541	2541	2541	2541	2541	2541	2541	2541
2.5	2559	2516	2514	2558	2514	2515	2558	2472	2559
5.0	2546	2544	2543	2543	2499	2544	2544	2545	2545
7.5	2523	2522	2521	2521	2520	2481	2522	2523	2439
10.0	2406	2490	2406	2489	2404	2449	2490	2449	2490
12.5	2448	2405	2361	2400	2439	2445	2443	2406	2443
15.0	2392	2387	2386	2382	2382	2346	2386	2349	2387
17.5	2238	2321	2276	2314	2318	2318	2320	2282	2323
20.0	2244	2210	2240	2202	2166	2164	2200	2242	2243
22.5	2089	2128	2156	2085	2152	2154	2121	2126	2168
25.0	2064	2004	2068	1997	2060	1991	2065	2069	2068
27.5	1967	1977	1904	1938	1936	1935	1969	1975	1976
30.0	1872	1845	1843	1835	1863	1869	1838	1845	1871
32.5	1767	1772	1762	1765	1704	1757	1708	1766	1764
35.0	1656	1663	1654	1625	1648	1651	1618	1605	1657
37.5	1546	1545	1547	1539	1482	1540	1536	1547	1489
40.0	1432	1415	1411	1407	1421	1408	1402	1439	1429
42.5	1328	1303	1307	1297	1321	1274	1295	1328	1325
45.0	1221	1187	1226	1198	1221	1178	1199	1202	1222
47.5	1092	1129	1127	1102	1114	1081	1115	1124	1089
50.0	1002	1002	1035	1011	1006	998	972	1031	1028
52.5	938	928	930	943	916	937	936	919	944
55.0	885	863	857	854	841	857	822	852	862
57.5	784	768	780	768	777	768	773	760	775
60.0	706	727	707	705	693	734	742	684	699
62.5	640	674	665	658	705	615	661	665	621
65.0	548	554	665	655	582	552	552	627	647
67.5	498	505	505	505	533	494	495	529	496
70.0	435	552	432	452	496	429	435	450	437
72.5	457	476	385	389	409	492	517	382	384
75.0	734	439	340	350	387	659	569	333	332
77.5	594	541	578	567	550	565	559	536	482
80.0	297	416	526	542	480	336	389	481	439
82.5	171	184	267	313	219	170	181	232	281
85.0	120	124	124	128	122	117	119	114	132
87.5	68	72	67	74	66	69	63	67	75
90.0	15	20	18	21	18	17	17	15	17

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ZONAL LUMEN SUMMARY

0- 5	61.
5- 10	179.
10- 15	286.
15- 20	378.
20- 25	446.
25- 30	493.
30- 35	514.
35- 40	510.
40- 45	484.
45- 50	447.
50- 55	405.
55- 60	359.
60- 65	319.
65- 70	262.
70- 75	232.
75- 80	268.
80- 85	137.
85- 90	38.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	61
5- 10	179
10- 15	286
15- 20	378
20- 25	446
25- 30	493
30- 35	514
35- 40	510
40- 45	484
45- 50	447
50- 55	405
55- 60	359
60- 65	319
65- 70	262
70- 75	232
75- 80	268
80- 85	137
85- 90	38
90- 95	2
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	239
0- 20	904
0- 30	1843
0- 40	2867
0- 50	3798
0- 60	4562
0- 70	5144
0- 80	5644
0- 90	5819
0-100	5822
0-110	5822
0-120	5822
0-130	5822
0-140	5822
0-150	5822
0-160	5822
0-170	5822
0-180	5822

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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.