

REPORT NUMBER: PRORATED FROM RAB03401

PAGE: 1 OF 9

ISSUE DATE: 05/24/17

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185W/D10, RAILP185W/D10 (Standard Distribution)

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, TWO WHITE CIRCUIT BOARD WITH TWO HUNDRED AND FIFTY TWO LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

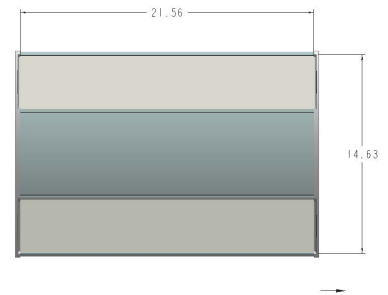
LAMPS: FIVE HUNDRED AND FOUR LIGHT EMITTING DIODES (LEDs).

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

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	9461	9461	9461	9461	9461	
5	9416	9415	9415	9403	9399	892
15	9007	8938	8870	8888	8923	2510
25	8154	8001	7818	7904	8010	3658
35	6956	6711	6456	6604	6804	4162
45	5548	5240	4941	5128	5384	4006
55	4081	3784	3515	3686	3932	3348
65	2663	2421	2216	2335	2512	2366
75	1328	1206	1090	1134	1208	1257
85	262	364	416	324	184	388
90	10	138	194	111	1	
95	0	17	45	6	1	36
105	1	2	3	2	2	2
115	2	2	3	3	3	3
125	2	2	3	3	3	3
135	3	3	4	3	3	3
145	4	4	5	5	5	3
155	5	5	6	6	5	3
165	6	6	7	6	6	2
175	6	7	8	7	7	1
180	8	8	8	8	8	

### FLUX



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	7060	31.2
0- 40	11221	49.6
0- 60	18575	82.0
0- 90	22586	99.8
90-120	41	0.2
90-130	43	0.2
90-150	49	0.2
90-180	54	0.2
0-180	22640	100.0

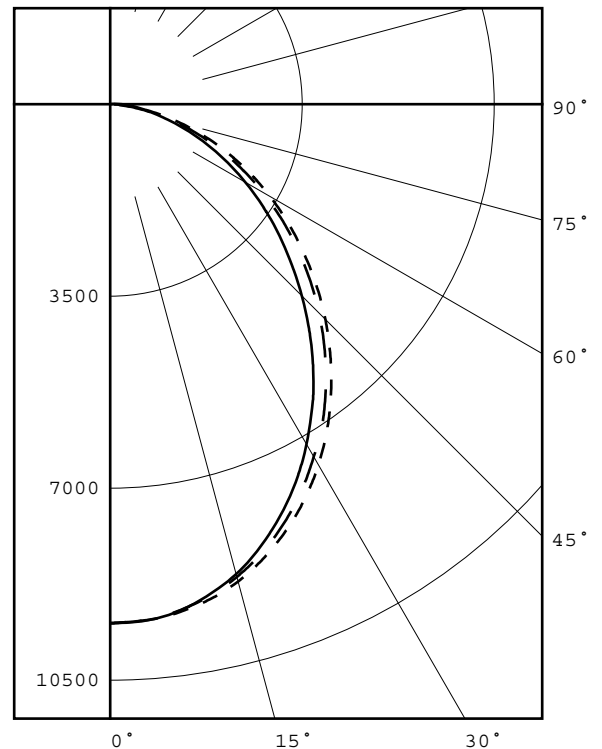
TOTAL INPUT WATTS = 163.5

EFFICACY = 138.5 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.1 1.2



#### LEGEND:

0-deg: - - - - -  
 90-deg: \_\_\_\_\_  
 180-deg: - - - - -

Checked

X.CAO

Approved

D.WANG-MUNSON



REPORT NUMBER: PRORATED FROM RAB03401  
ISSUE DATE: 05/24/17  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 2 OF 9

## ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB03401 WHICH WAS  
RAIL185NW/D10, RAILP185NW/D10. ACTUAL PERFORMANCE MAY VARY.  
TOTAL INPUT WATTS = 163.5 W AT 120.0 VAC.  
LED DRIVER: 2 x RDD-U85-A1750  
TEST PROCEDURE: IESNA LM-79-08  
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE



REPORT NUMBER: PRORATED FROM RAB03401  
ISSUE DATE: 05/24/17  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 3 OF 9

PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 100.0 X 92.8 DEGREES  
FIELD ANGLE (10%) : 155.4 X 153.2 DEGREES



REPORT NUMBER: PRORATED FROM RAB03401  
ISSUE DATE: 05/24/17  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 9

PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH :21.560 14.630

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	38545.	34325.	37404.
55	34953.	30105.	33673.
65	30952.	25752.	29202.
75	25210.	20683.	22937.
85	14758.	23421.	10396.







REPORT NUMBER: PRORATED FROM RAB03401  
ISSUE DATE: 05/24/17  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 6 OF 9

### ZONAL LUMEN SUMMARY

0- 5	226.
5- 10	667.
10- 15	1076.
15- 20	1434.
20- 25	1723.
25- 30	1935.
30- 35	2061.
35- 40	2101.
40- 45	2059.
45- 50	1947.
50- 55	1780.
55- 60	1568.
60- 65	1319.
65- 70	1047.
70- 75	763.
75- 80	493.
80- 85	270.
85- 90	118.
90- 95	32.
95-100	4.
100-105	1.
105-110	1.
110-115	1.
115-120	1.
120-125	1.
125-130	1.
130-135	1.
135-140	1.
140-145	2.
145-150	1.
150-155	1.
155-160	1.
160-165	1.
165-170	1.
170-175	1.
175-180	0.



REPORT NUMBER: PRORATED FROM RAB03401  
 ISSUE DATE: 05/24/17  
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 7 OF 9

### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	226
5- 10	667
10- 15	1076
15- 20	1434
20- 25	1723
25- 30	1935
30- 35	2061
35- 40	2101
40- 45	2059
45- 50	1947
50- 55	1780
55- 60	1568
60- 65	1319
65- 70	1047
70- 75	763
75- 80	493
80- 85	270
85- 90	118
90- 95	32
95-100	4
100-105	1
105-110	1
110-115	1
115-120	1
120-125	1
125-130	1
130-135	1
135-140	1
140-145	2
145-150	1
150-155	1
155-160	1
160-165	1
165-170	1
170-175	1
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	892
0- 20	3402
0- 30	7060
0- 40	11221
0- 50	15227
0- 60	18575
0- 70	20941
0- 80	22198
0- 90	22586
0-100	22621
0-110	22624
0-120	22626
0-130	22629
0-140	22632
0-150	22635
0-160	22637
0-170	22639
0-180	22640



REPORT NUMBER: PRORATED FROM RAB03401  
ISSUE DATE: 05/24/17

PAGE: 8 OF 9

PREPARED FOR: RAB LIGHTING INC.

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

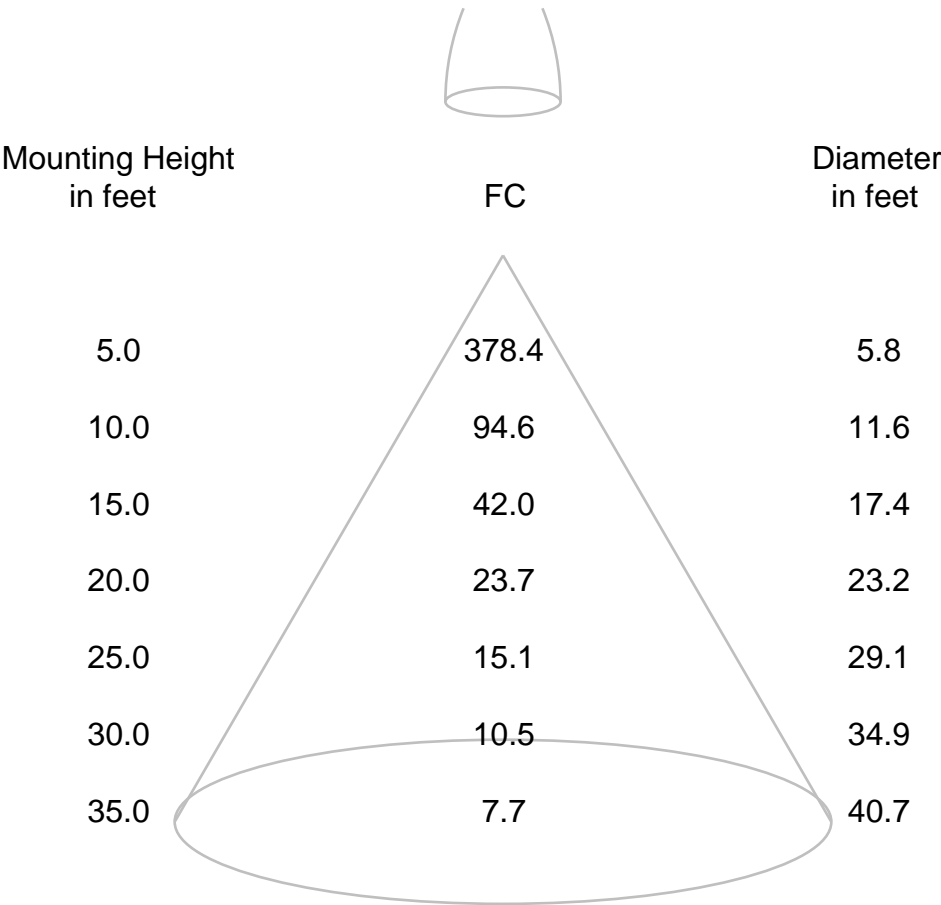
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	71	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	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.



# CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.