

REPORT NUMBER: RAB00860

ISSUE DATE: 05/08/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL225YNW/BL\_2 ON

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

LAMPS: ONE HUNDRED AND NINETY TWO LIGHT EMITTING DIODES (LEDs), DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT LED

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

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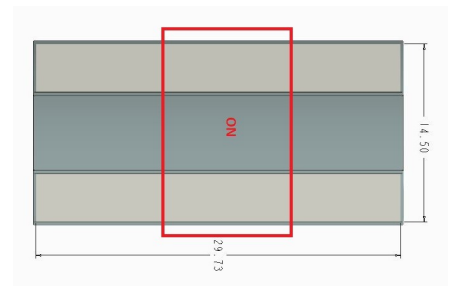
DATE SAMPLE TESTED: 05/08/15

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3361	3361	3361	3361	3361
5	3344	3339	3329	3340	3351
15	3196	3168	3135	3168	3199
25	2899	2832	2761	2830	2900
35	2485	2370	2263	2370	2483
45	1989	1846	1715	1843	1987
55	1477	1328	1201	1317	1464
65	962	842	757	845	959
75	481	424	374	422	483
85	94	105	112	104	95
90	1	30	43	30	2
95	0	1	6	2	1
105	1	1	1	2	2
115	1	1	1	1	1
125	1	1	2	2	2
135	1	1	2	2	2
145	2	2	2	2	2
155	2	2	2	3	2
165	2	2	3	3	3
175	2	2	3	3	3
180	3	3	3	3	3

### FLUX

317
892
1303
1484
1429
1191
844
454
127
8
1
1
1
1
1
1
1
1
0



### ZONAL LUMEN SUMMARY

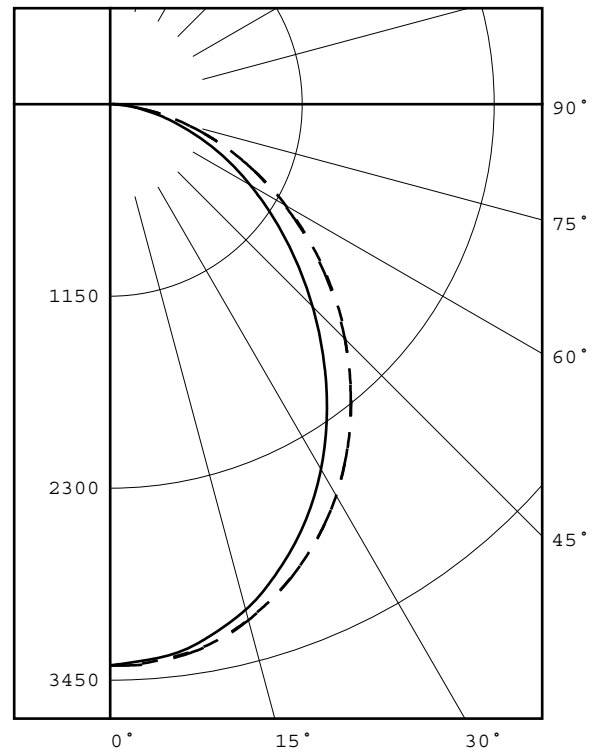
ZONE	LUMENS	%FIXT
0- 30	2512	31.2
0- 40	3996	49.6
0- 60	6616	82.1
0- 90	8040	99.8
90-120	10	0.1
90-130	11	0.1
90-150	14	0.2
90-180	16	0.2
0-180	8056	100.0

TOTAL INPUT WATTS = 74.8

EFFICACY = 107.7 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

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ADDITIONAL INFORMATION

DRIVER: RD-075-A1400

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 101.9 X 91.2 DEGREES  
FIELD ANGLE (10%) : 156.7 X 152.3 DEGREES



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## ZONAL LUMEN SUMMARY

0- 5	80.
5- 10	237.
10- 15	382.
15- 20	510.
20- 25	613.
25- 30	690.
30- 35	735.
35- 40	749.
40- 45	734.
45- 50	695.
50- 55	634.
55- 60	557.
60- 65	470.
65- 70	375.
70- 75	275.
75- 80	178.
80- 85	93.
85- 90	34.
90- 95	7.
95-100	1.
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	1.
145-150	1.
150-155	1.
155-160	1.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	80
5- 10	237
10- 15	382
15- 20	510
20- 25	613
25- 30	690
30- 35	735
35- 40	749
40- 45	734
45- 50	695
50- 55	634
55- 60	557
60- 65	470
65- 70	375
70- 75	275
75- 80	178
80- 85	93
85- 90	34
90- 95	7
95-100	1
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	1
145-150	1
150-155	1
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	317
0- 20	1209
0- 30	2512
0- 40	3996
0- 50	5424
0- 60	6616
0- 70	7460
0- 80	7914
0- 90	8040
0-100	8048
0-110	8049
0-120	8050
0-130	8052
0-140	8053
0-150	8054
0-160	8055
0-170	8056
0-180	8056

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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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	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	76	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	41	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	32	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

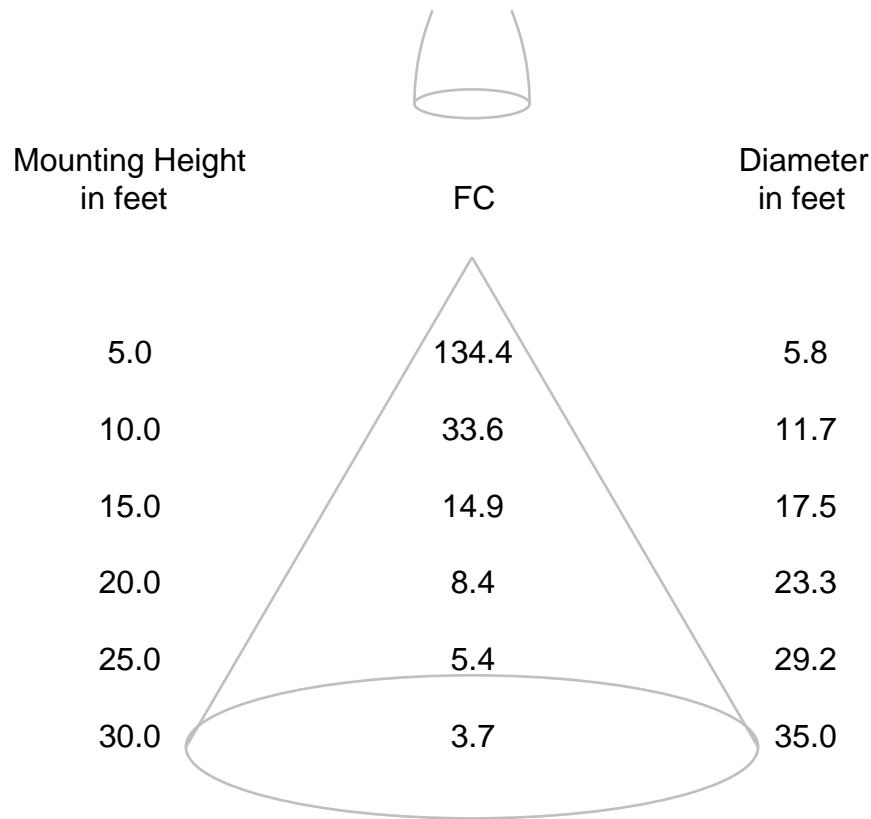
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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## 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.