

REPORT NUMBER: SCALED FROM RAB00834

ISSUE DATE: 05/21/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185NW/347 RCL

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, SIX WHITE CIRCUIT

BOARD WITH NINETY SIX LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

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

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS = 174.2 AT 480.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

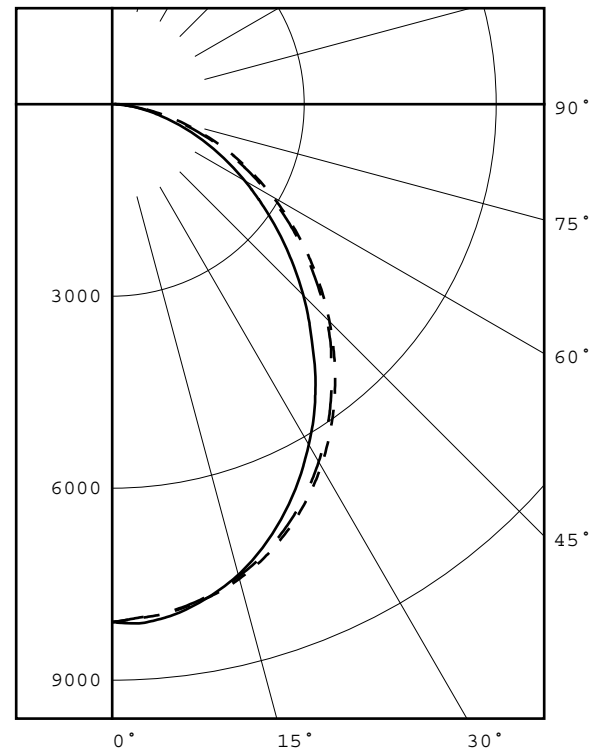
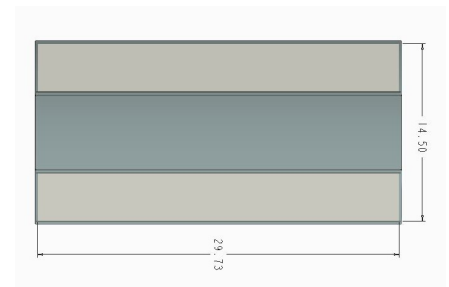
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

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### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	8094	8094	8094	8094	8094	
5	8018	8049	8086	8044	8006	764
15	7677	7643	7613	7621	7640	2152
25	6991	6864	6710	6815	6925	3147
35	5998	5765	5533	5717	5917	3591
45	4801	4514	4226	4459	4738	3466
55	3536	3236	2966	3188	3468	2889
65	2299	2062	1855	2014	2232	2038
75	1159	1024	904	985	1097	1083
85	236	262	275	243	196	303
90	12	80	107	66	6	
95	1	6	16	4	3	19
105	2	2	4	5	5	3
115	2	3	4	4	5	3
125	3	3	4	5	5	3
135	4	4	5	6	7	4
145	5	5	6	7	8	4
155	6	6	8	8	8	3
165	6	7	8	9	9	2
175	7	8	10	10	10	1
180	9	9	9	9	9	

### FLUX



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

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	6062	31.1
0- 40	9653	49.6
0- 60	16008	82.2
0- 90	19432	99.8
90-120	26	0.1
90-130	30	0.2
90-150	37	0.2
90-180	44	0.2
0-180	19476	100.0

TOTAL INPUT WATTS = 174.2

EFFICACY = 111.8 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.1 1.2

Checked X.CAO  
Approved D.WANG-MUNSON

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## ADDITIONAL INFORMATION

TEST DISTANCE: 28.25 FEET  
DRIVER: 2 X RD-H100-A2000-480  
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE  
ACCREDITED LABORATORY CODE 201058-0  
LED  
INDOOR, ARCHITECTURAL, COMMERCIAL DOCK, GYMNASIUM, INDUSTRIAL,  
INSTITUTIONAL, MANUFACTURING, POOL, RECREATION, RETAIL, SPORTS,  
DIRECT, HIGH BAY, LOW BAY, COLD STORAGE, DAMP LOCATION, WET  
LOCATION  
CEILING, SURFACE, SUSPENDED  
4000  
DLC

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 101.2 X 92.5 DEGREES  
FIELD ANGLE (10%) : 156.1 X 152.3 DEGREES



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## ZONAL LUMEN SUMMARY

0- 5	193.
5- 10	571.
10- 15	922.
15- 20	1230.
20- 25	1481.
25- 30	1666.
30- 35	1778.
35- 40	1814.
40- 45	1780.
45- 50	1686.
50- 55	1538.
55- 60	1351.
60- 65	1136.
65- 70	902.
70- 75	660.
75- 80	423.
80- 85	221.
85- 90	82.
90- 95	17.
95-100	2.
100-105	2.
105-110	2.
110-115	2.
115-120	2.
120-125	2.
125-130	2.
130-135	2.
135-140	2.
140-145	2.
145-150	2.
150-155	2.
155-160	2.
160-165	1.
165-170	1.
170-175	1.
175-180	0.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	193
5- 10	571
10- 15	922
15- 20	1230
20- 25	1481
25- 30	1666
30- 35	1778
35- 40	1814
40- 45	1780
45- 50	1686
50- 55	1538
55- 60	1351
60- 65	1136
65- 70	902
70- 75	660
75- 80	423
80- 85	221
85- 90	82
90- 95	17
95-100	2
100-105	2
105-110	2
110-115	2
115-120	2
120-125	2
125-130	2
130-135	2
135-140	2
140-145	2
145-150	2
150-155	2
155-160	2
160-165	1
165-170	1
170-175	1
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	764
0- 20	2915
0- 30	6062
0- 40	9653
0- 50	13119
0- 60	16008
0- 70	18047
0- 80	19130
0- 90	19432
0-100	19452
0-110	19455
0-120	19459
0-130	19462
0-140	19466
0-150	19470
0-160	19473
0-170	19475
0-180	19476

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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	96	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	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	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

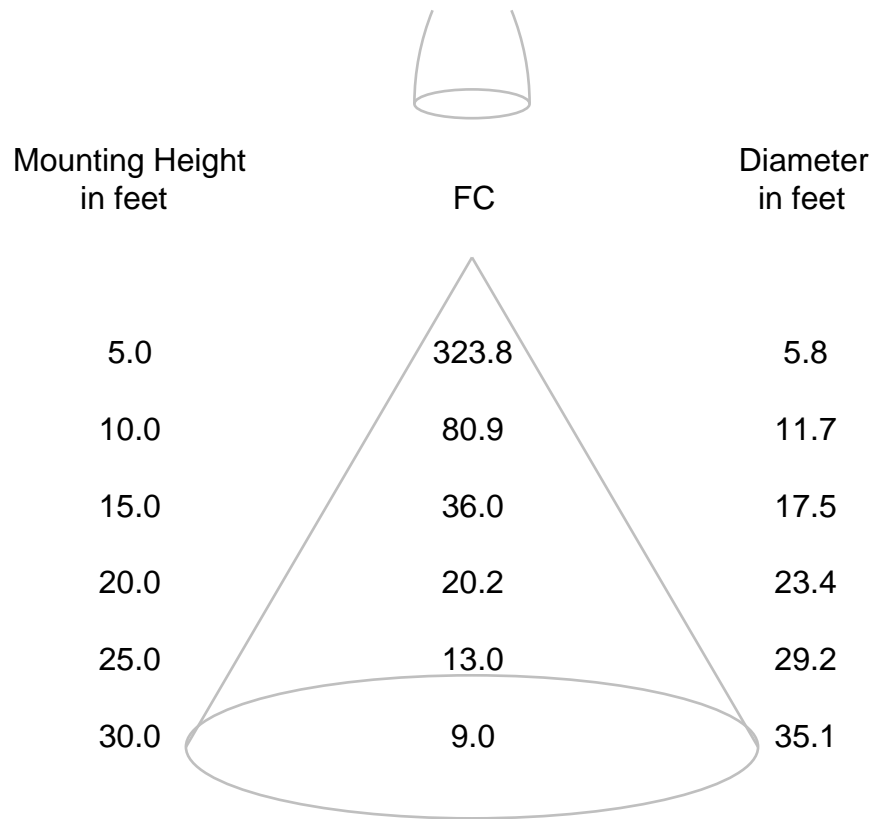
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE  
BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES  
ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.