

REPORT NUMBER: PRORATED FROM RAB03410

PAGE: 1 OF 9

ISSUE DATE: 05/25/17

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL150W/480/D10, RAILP150W/480/D10 (Standard Distribution) (ALSO APPLIES TO 347 RCL)

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

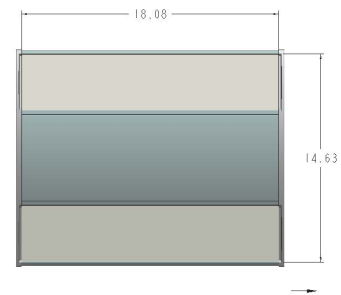
LAMPS: FOUR HUNDRED AND TWENTY LIGHT EMITTING DIODES (LEDs).

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	8020	8020	8020	8020	8020	
5	7982	7989	7983	7968	7975	757
15	7606	7603	7567	7528	7523	2129
25	6842	6822	6744	6669	6642	3102
35	5795	5760	5643	5540	5481	3529
45	4597	4533	4399	4284	4248	3404
55	3352	3298	3185	3061	3029	2849
65	2157	2112	2035	1948	1914	2015
75	1049	1029	1002	966	953	1069
85	181	217	297	349	367	334
90	1	42	109	158	175	
95	0	0	10	34	43	31
105	0	0	1	1	1	1
115	1	1	1	1	1	1
125	1	1	1	1	1	1
135	2	2	2	2	2	2
145	3	3	3	3	3	2
155	3	3	5	5	5	2
165	5	5	5	5	5	1
175	5	6	6	6	6	0
180	6	6	6	6	6	

FLUX



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	5989	31.1
0- 40	9518	49.5
0- 60	15771	82.0
0- 90	19188	99.8
90-120	33	0.2
90-130	35	0.2
90-150	38	0.2
90-180	42	0.2
0-180	19230	100.0

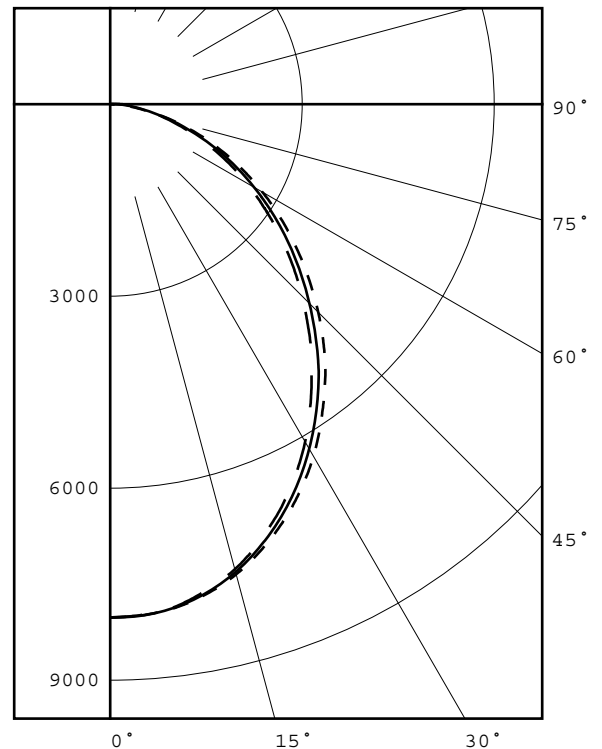
TOTAL INPUT WATTS = 135.4

EFFICACY = 142.0 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.1



LEGEND:

0-deg: - - - - -
 45-deg: _____
 90-deg: - . - . - .

Checked

X.CAO

Approved

D.WANG-MUNSON

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17
PREPARED FOR: RAB LIGHTING INC.

PAGE: 2 OF 9

ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB03410 WHICH WAS
RAIL150YNW/480/D10. ACTUAL PERFORMANCE MAY VARY.
TOTAL INPUT WATTS = 135.4 W AT 480.0 VAC.
LED DRIVER: 2 x RDD-H65-42B-A1400
TEST PROCEDURE: IESNA LM-79-08
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17
PREPARED FOR: RAB LIGHTING INC.

PAGE: 3 OF 9

PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 99.3 X 93.8 DEGREES
FIELD ANGLE (10%): 154.9 X 154.0 DEGREES

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17
PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 9

PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH :18.080 14.630

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	38083.	36441.	35190.
55	34234.	32531.	30931.
65	29892.	28205.	26534.
75	23742.	22671.	21574.
85	12192.	19993.	24688.

REPORT NUMBER: PRORATED FROM RAB03410
 ISSUE DATE: 05/25/17
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 5 OF 9

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	8020	8020	8020	8020	8020
5.0	7982	7989	7983	7968	7975
10.0	7847	7849	7834	7805	7803
15.0	7606	7603	7567	7528	7523
20.0	7260	7251	7193	7135	7119
25.0	6842	6822	6744	6669	6642
30.0	6351	6322	6221	6135	6090
35.0	5795	5760	5643	5540	5481
40.0	5221	5161	5032	4921	4865
45.0	4597	4533	4399	4284	4248
50.0	3967	3903	3787	3663	3627
55.0	3352	3298	3185	3061	3029
60.0	2748	2697	2597	2482	2460
65.0	2157	2112	2035	1948	1914
70.0	1585	1550	1497	1432	1399
75.0	1049	1029	1002	966	953
80.0	566	567	583	599	603
85.0	181	217	297	349	367
90.0	1	42	109	158	175
95.0	0	0	10	34	43
100.0	0	0	1	1	1
105.0	0	0	1	1	1
110.0	1	1	1	1	1
115.0	1	1	1	1	1
120.0	1	1	1	1	1
125.0	1	1	1	1	1
130.0	1	1	2	2	2
135.0	2	2	2	2	2
140.0	2	2	2	3	3
145.0	3	3	3	3	3
150.0	3	3	3	3	5
155.0	3	3	5	5	5
160.0	5	5	5	5	5
165.0	5	5	5	5	5
170.0	5	5	5	6	6
175.0	5	6	6	6	6
180.0	6	6	6	6	6

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17
PREPARED FOR: RAB LIGHTING INC.

PAGE: 6 OF 9

ZONAL LUMEN SUMMARY

0- 5	191.
5- 10	566.
10- 15	913.
15- 20	1216.
20- 25	1461.
25- 30	1641.
30- 35	1747.
35- 40	1782.
40- 45	1749.
45- 50	1655.
50- 55	1515.
55- 60	1334.
60- 65	1124.
65- 70	891.
70- 75	649.
75- 80	421.
80- 85	232.
85- 90	101.
90- 95	28.
95-100	3.
100-105	0.
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	1.
165-170	1.
170-175	0.
175-180	0.

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17
PREPARED FOR: RAB LIGHTING INC.

PAGE: 7 OF 9

5-DEGREE ZONAL LUMEN SUMMARY

0- 5	191
5- 10	566
10- 15	913
15- 20	1216
20- 25	1461
25- 30	1641
30- 35	1747
35- 40	1782
40- 45	1749
45- 50	1655
50- 55	1515
55- 60	1334
60- 65	1124
65- 70	891
70- 75	649
75- 80	421
80- 85	232
85- 90	101
90- 95	28
95-100	3
100-105	0
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	1
165-170	1
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	757
0- 20	2886
0- 30	5989
0- 40	9518
0- 50	12922
0- 60	15771
0- 70	17785
0- 80	18855
0- 90	19188
0-100	19220
0-110	19220
0-120	19222
0-130	19223
0-140	19225
0-150	19227
0-160	19229
0-170	19230
0-180	19230

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17

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	85	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	65	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

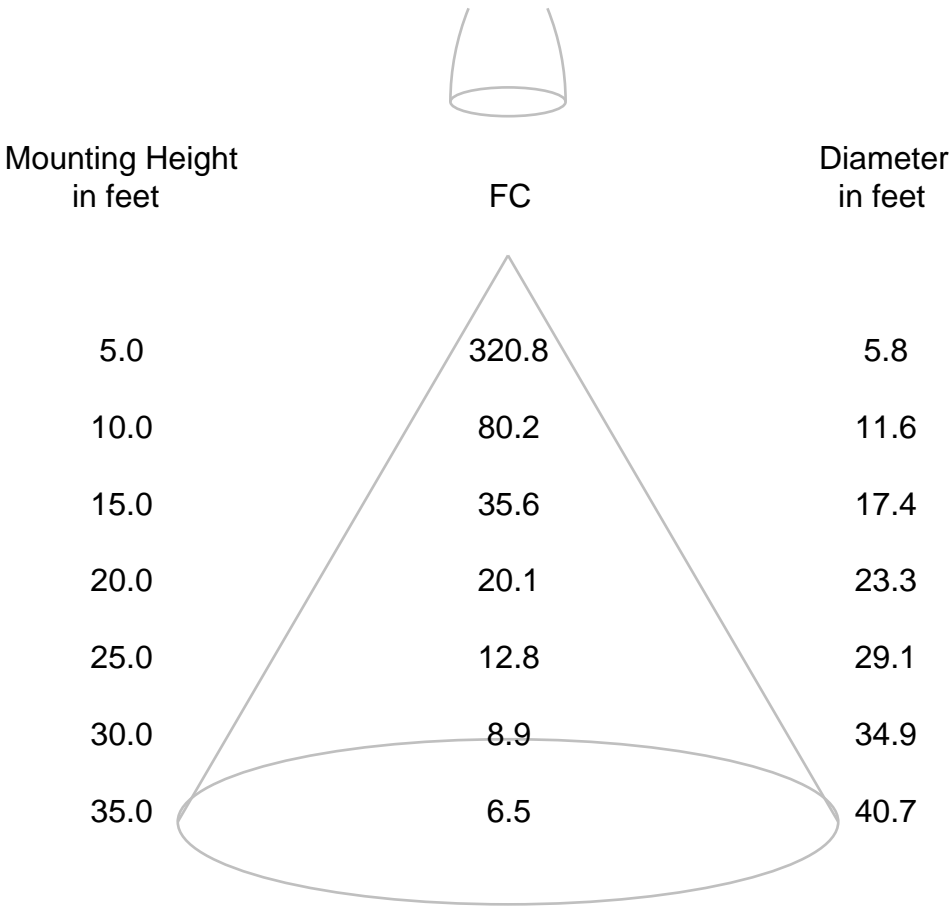
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

REPORT NUMBER: PRORATED FROM RAB03410
ISSUE DATE: 05/25/17
PREPARED FOR: RAB LIGHTING INC.

PAGE: 9 OF 9

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.