

REPORT NUMBER: SCALED FROM RAB00840

ISSUE DATE: 05/21/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL225NW/480

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 = 222.8 AT 480.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

(SEE PAGE 2 FOR MORE INFORMATION)

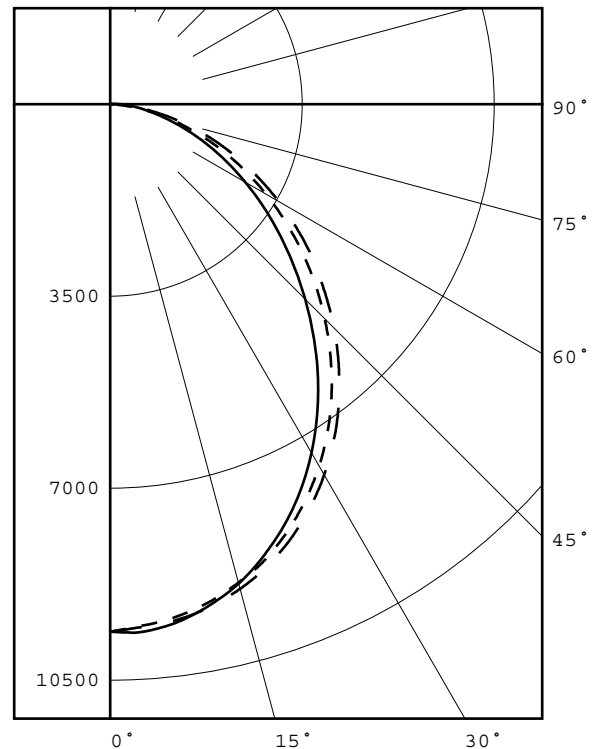
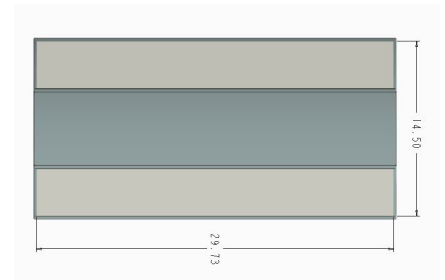
PAGE: 1 OF 5

DATE SAMPLE TESTED: 05/07/15

CANDELA DISTRIBUTION

| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | |
|-----|------|------|------|-------|-------|------|
| 0 | 9616 | 9616 | 9616 | 9616 | 9616 | |
| 5 | 9493 | 9542 | 9601 | 9569 | 9533 | 907 |
| 15 | 9030 | 9029 | 9047 | 9111 | 9148 | 2556 |
| 25 | 8183 | 8073 | 8004 | 8190 | 8345 | 3742 |
| 35 | 6978 | 6756 | 6604 | 6900 | 7183 | 4271 |
| 45 | 5532 | 5240 | 5027 | 5399 | 5767 | 4115 |
| 55 | 4023 | 3726 | 3531 | 3898 | 4294 | 3427 |
| 65 | 2565 | 2355 | 2221 | 2507 | 2819 | 2423 |
| 75 | 1257 | 1146 | 1110 | 1270 | 1455 | 1305 |
| 85 | 206 | 314 | 405 | 391 | 329 | 409 |
| 90 | 1 | 112 | 193 | 152 | 31 | |
| 95 | 1 | 15 | 55 | 26 | 6 | 43 |
| 105 | 2 | 3 | 5 | 6 | 7 | 5 |
| 115 | 2 | 3 | 5 | 6 | 7 | 5 |
| 125 | 2 | 3 | 5 | 6 | 7 | 4 |
| 135 | 3 | 4 | 6 | 7 | 8 | 4 |
| 145 | 4 | 5 | 7 | 8 | 9 | 4 |
| 155 | 5 | 6 | 8 | 9 | 10 | 3 |
| 165 | 5 | 6 | 9 | 10 | 10 | 2 |
| 175 | 6 | 7 | 10 | 11 | 11 | 1 |
| 180 | 9 | 9 | 9 | 9 | 9 | |

FLUX



LEGEND:

0-deg: - - - - -
90-deg: _____
180-deg: - - - - -

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | %FIXT |
|--------|--------|-------|
| 0- 30 | 7206 | 31.0 |
| 0- 40 | 11477 | 49.4 |
| 0- 60 | 19018 | 81.9 |
| 0- 90 | 23155 | 99.7 |
| 90-120 | 53 | 0.2 |
| 90-130 | 57 | 0.2 |
| 90-150 | 65 | 0.3 |
| 90-180 | 72 | 0.3 |
| 0-180 | 23227 | 100.0 |

TOTAL INPUT WATTS = 222.8

EFFICACY = 104.3 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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PAGE: 2 OF 5
DATE SAMPLE TESTED: 05/07/15

ADDITIONAL INFORMATION

TEST DISTANCE: 28.25 FEET
DRIVER: 3 X RD-S075-A1400/480
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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PAGE: 4 OF 5
DATE SAMPLE TESTED: 05/07/15

ZONAL LUMEN SUMMARY

| | |
|---------|-------|
| 0- 5 | 229. |
| 5- 10 | 678. |
| 10- 15 | 1095. |
| 15- 20 | 1461. |
| 20- 25 | 1761. |
| 25- 30 | 1981. |
| 30- 35 | 2114. |
| 35- 40 | 2158. |
| 40- 45 | 2115. |
| 45- 50 | 1999. |
| 50- 55 | 1825. |
| 55- 60 | 1602. |
| 60- 65 | 1349. |
| 65- 70 | 1074. |
| 70- 75 | 789. |
| 75- 80 | 516. |
| 80- 85 | 286. |
| 85- 90 | 123. |
| 90- 95 | 36. |
| 95-100 | 7. |
| 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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PAGE: 5 OF 5
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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 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 71 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 54 | 49 | 58 | 52 | 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 | 42 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 32 |
| 9 | 58 | 45 | 37 | 32 | 57 | 44 | 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 | 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.