

REPORT NUMBER: PRORATED FROM RAB03243

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ISSUE DATE: 05/09/17

CATALOG NUMBER: RTLED2X4-49/D10

LUMINAIRE: WHITE PAINTED SHEET METAL HOUSING, 2 WHITE CIRCUIT BOARDS
EACH WITH 98 LEDS, MATTE WHITE POLYCARBONATE LENS IN THE CENTER,
ROUGH SURFACE FACING OUT. FIXTURE WAS MOUNTED IN Lithonia Lighting
Model #2GT8 4 32 A12 MVOLT 1/4 MVISPWS1836LP741 HOUSING.

LAMPS: ONE HUNDRED AND NINETY-SIX LIGHT EMITTING DIODES (LEDs), VERTICAL
BASE-UP POSITION.

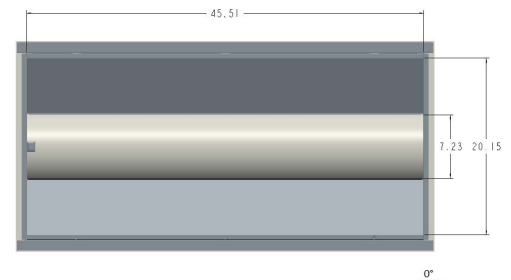
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|------|------|------|------|------|
| 0 | 2229 | 2229 | 2229 | 2229 | 2229 |
| 5 | 2193 | 2204 | 2230 | 2237 | 2235 |
| 15 | 2105 | 2120 | 2152 | 2165 | 2170 |
| 25 | 1940 | 1955 | 1996 | 2019 | 2030 |
| 35 | 1705 | 1724 | 1776 | 1811 | 1831 |
| 45 | 1418 | 1441 | 1504 | 1556 | 1583 |
| 55 | 1101 | 1126 | 1205 | 1278 | 1311 |
| 65 | 766 | 799 | 896 | 959 | 992 |
| 75 | 434 | 484 | 564 | 645 | 683 |
| 85 | 130 | 173 | 238 | 266 | 285 |
| 90 | 10 | 16 | 11 | 6 | 2 |

FLUX

| |
|------|
| 211 |
| 605 |
| 917 |
| 1108 |
| 1158 |
| 1077 |
| 875 |
| 595 |
| 232 |



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | %FIXT |
|--------|--------|-------|
| 0- 30 | 1733 | 25.6 |
| 0- 40 | 2841 | 41.9 |
| 0- 60 | 5076 | 74.9 |
| 0- 90 | 6779 | 100.0 |
| 90-180 | 0 | 0.0 |
| 0-180 | 6779 | 100.0 |

TOTAL INPUT WATTS = 49.6

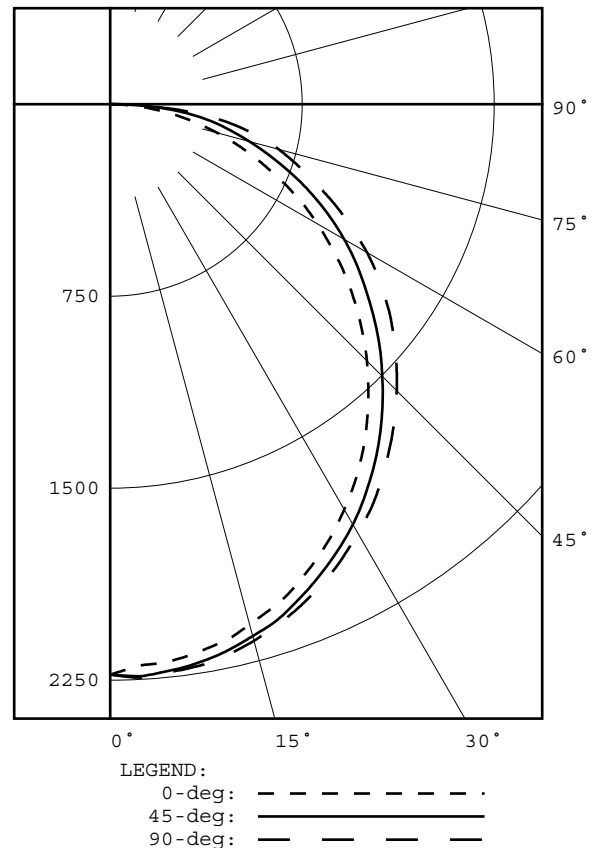
EFFICACY = 136.7 Lm/W

CIE TYPE - DIRECT

| | | |
|------------------|----------|--------|
| PLANE | : 0-DEG | 90-DEG |
| SPACING CRITERIA | : 1.2 | 1.3 |
| PLANE | : 0-DEG | 90-DEG |
| LUMINOUS LENGTH | : 45.510 | 20.150 |

LUMINANCE DATA IN CANDELA/SQ METER

| ANGLE IN DEG | AVERAGE 0-DEG | AVERAGE 45-DEG | AVERAGE 90-DEG |
|-----------------|------------------|-------------------|-------------------|
| 45 | 3389. | 3594. | 3783. |
| 55 | 3244. | 3551. | 3861. |
| 65 | 3061. | 3581. | 3967. |
| 75 | 2831. | 3680. | 4456. |
| 85 | 2522. | 4611. | 5524. |



Checked P.ALBERS
Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB03243 WHICH WAS
RTLED2X4-49NHC/D10. ACTUAL PERFORMANCE MAY VARY.
TOTAL INPUT WATTS = 49.6 W AT 120.0 VAC.
LED DRIVER: RD-050-EUH-A1050
TEST PROCEDURE: IESNA LM-79-08
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 108.8 X 122.2 DEGREES
FIELD ANGLE (10%) : 163.4 X 171.8 DEGREES

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CANDELA DISTRIBUTION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|------|------|------|------|------|------|
| 0.0 | 2229 | 2229 | 2229 | 2229 | 2229 |
| 2.5 | 2200 | 2212 | 2237 | 2243 | 2242 |
| 5.0 | 2193 | 2204 | 2230 | 2237 | 2235 |
| 7.5 | 2180 | 2190 | 2219 | 2227 | 2226 |
| 10.0 | 2160 | 2172 | 2201 | 2212 | 2216 |
| 12.5 | 2139 | 2148 | 2179 | 2191 | 2195 |
| 15.0 | 2105 | 2120 | 2152 | 2165 | 2170 |
| 17.5 | 2071 | 2085 | 2125 | 2136 | 2141 |
| 20.0 | 2035 | 2048 | 2085 | 2102 | 2107 |
| 22.5 | 1988 | 2003 | 2042 | 2063 | 2070 |
| 25.0 | 1940 | 1955 | 1996 | 2019 | 2030 |
| 27.5 | 1887 | 1903 | 1949 | 1975 | 1985 |
| 30.0 | 1828 | 1847 | 1895 | 1925 | 1934 |
| 32.5 | 1769 | 1788 | 1840 | 1872 | 1887 |
| 35.0 | 1705 | 1724 | 1776 | 1811 | 1831 |
| 37.5 | 1638 | 1658 | 1713 | 1752 | 1770 |
| 40.0 | 1566 | 1587 | 1645 | 1688 | 1710 |
| 42.5 | 1493 | 1514 | 1576 | 1623 | 1648 |
| 45.0 | 1418 | 1441 | 1504 | 1556 | 1583 |
| 47.5 | 1342 | 1365 | 1432 | 1488 | 1518 |
| 50.0 | 1261 | 1287 | 1356 | 1418 | 1449 |
| 52.5 | 1183 | 1208 | 1281 | 1350 | 1383 |
| 55.0 | 1101 | 1126 | 1205 | 1278 | 1311 |
| 57.5 | 1017 | 1044 | 1132 | 1207 | 1236 |
| 60.0 | 934 | 965 | 1057 | 1126 | 1158 |
| 62.5 | 852 | 882 | 976 | 1046 | 1075 |
| 65.0 | 766 | 799 | 896 | 959 | 992 |
| 67.5 | 679 | 717 | 813 | 881 | 908 |
| 70.0 | 596 | 638 | 726 | 794 | 826 |
| 72.5 | 515 | 567 | 644 | 716 | 754 |
| 75.0 | 434 | 484 | 564 | 645 | 683 |
| 77.5 | 353 | 406 | 488 | 577 | 605 |
| 80.0 | 276 | 323 | 415 | 488 | 513 |
| 82.5 | 201 | 245 | 332 | 391 | 413 |
| 85.0 | 130 | 173 | 238 | 266 | 285 |
| 87.5 | 63 | 94 | 116 | 121 | 120 |
| 90.0 | 10 | 16 | 11 | 6 | 2 |

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ZONAL LUMEN SUMMARY

| | |
|--------|------|
| 0- 5 | 53. |
| 5- 10 | 158. |
| 10- 15 | 257. |
| 15- 20 | 348. |
| 20- 25 | 426. |
| 25- 30 | 491. |
| 30- 35 | 539. |
| 35- 40 | 569. |
| 40- 45 | 581. |
| 45- 50 | 577. |
| 50- 55 | 556. |
| 55- 60 | 521. |
| 60- 65 | 470. |
| 65- 70 | 405. |
| 70- 75 | 335. |
| 75- 80 | 260. |
| 80- 85 | 172. |
| 85- 90 | 61. |

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5-DEGREE ZONAL LUMEN SUMMARY

| | |
|---------|-----|
| 0- 5 | 53 |
| 5- 10 | 158 |
| 10- 15 | 257 |
| 15- 20 | 348 |
| 20- 25 | 426 |
| 25- 30 | 491 |
| 30- 35 | 539 |
| 35- 40 | 569 |
| 40- 45 | 581 |
| 45- 50 | 577 |
| 50- 55 | 556 |
| 55- 60 | 521 |
| 60- 65 | 470 |
| 65- 70 | 405 |
| 70- 75 | 335 |
| 75- 80 | 260 |
| 80- 85 | 172 |
| 85- 90 | 61 |
| 90- 95 | 1 |
| 95-100 | 0 |
| 100-105 | 0 |
| 105-110 | 0 |
| 110-115 | 0 |
| 115-120 | 0 |
| 120-125 | 0 |
| 125-130 | 0 |
| 130-135 | 0 |
| 135-140 | 0 |
| 140-145 | 0 |
| 145-150 | 0 |
| 150-155 | 0 |
| 155-160 | 0 |
| 160-165 | 0 |
| 165-170 | 0 |
| 170-175 | 0 |
| 175-180 | 0 |

10-DEGREE ZONAL LUMEN SUMMARY

| | |
|-------|------|
| 0- 10 | 211 |
| 0- 20 | 816 |
| 0- 30 | 1733 |
| 0- 40 | 2841 |
| 0- 50 | 3999 |
| 0- 60 | 5076 |
| 0- 70 | 5950 |
| 0- 80 | 6545 |
| 0- 90 | 6777 |
| 0-100 | 6779 |
| 0-110 | 6779 |
| 0-120 | 6779 |
| 0-130 | 6779 |
| 0-140 | 6779 |
| 0-150 | 6779 |
| 0-160 | 6779 |
| 0-170 | 6779 |
| 0-180 | 6779 |

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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 | 108 | 102 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 92 | 89 | 92 | 89 | 86 | 88 | 86 | 84 | 82 |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 73 | 80 | 75 | 71 | 77 | 73 | 69 | 67 |
| 3 | 89 | 77 | 69 | 62 | 86 | 76 | 68 | 61 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 56 |
| 4 | 81 | 68 | 59 | 52 | 79 | 67 | 58 | 52 | 64 | 57 | 51 | 62 | 56 | 50 | 60 | 54 | 50 | 47 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 42 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

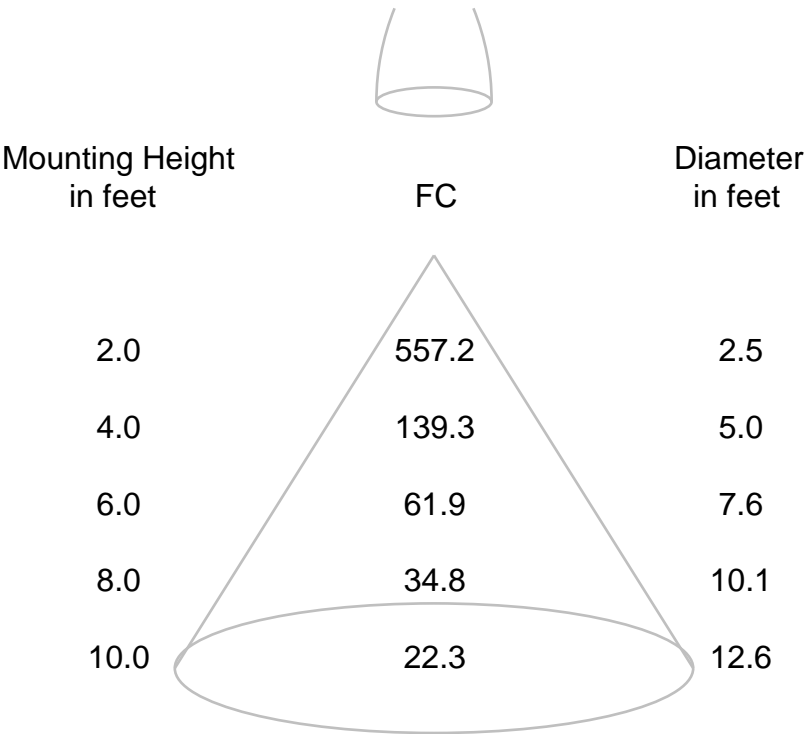
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.