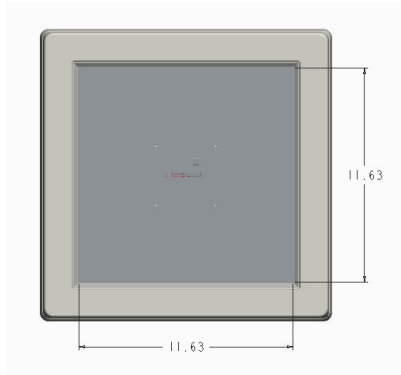
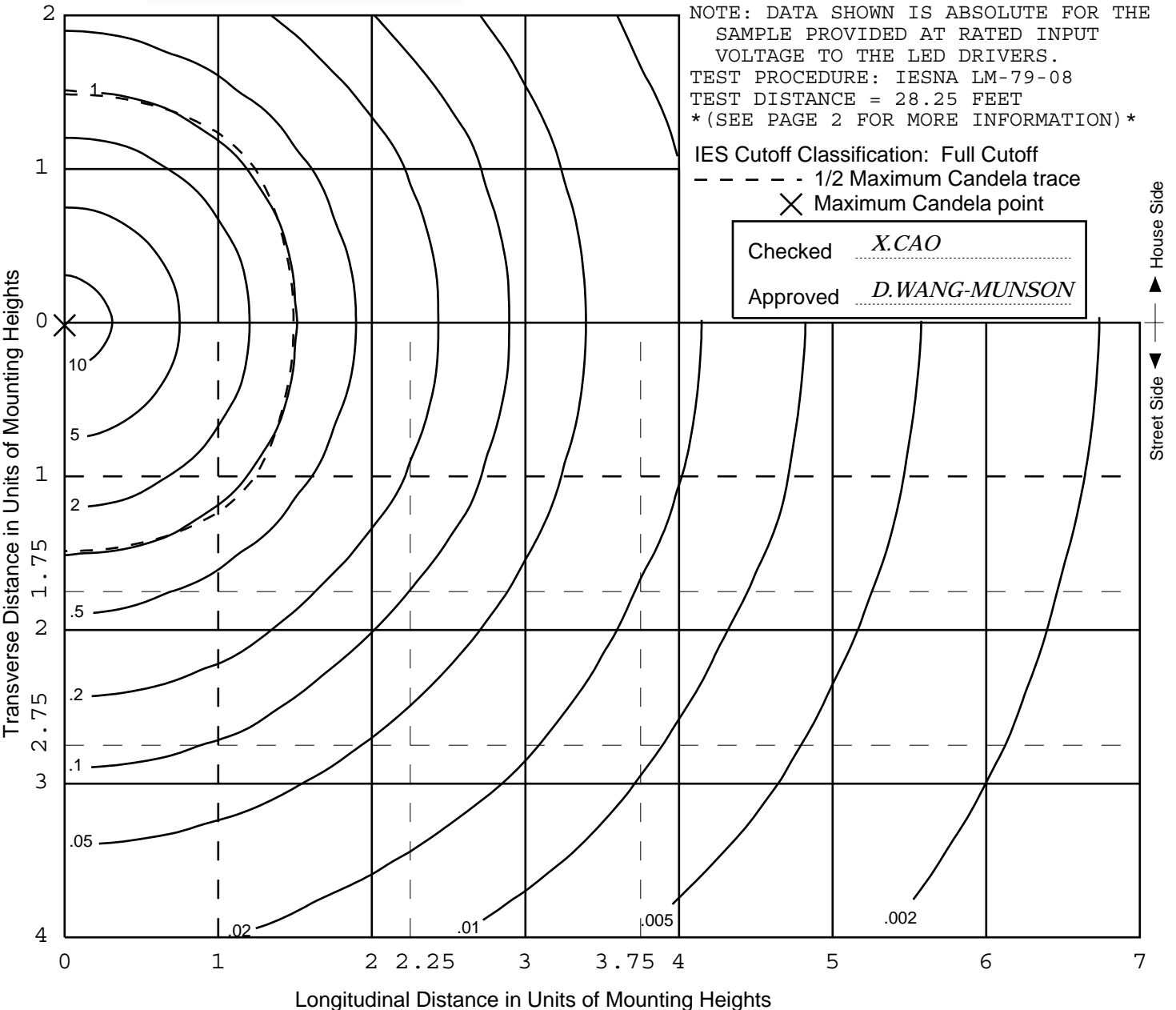


## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 14 foot mounting height.



REPORT NUMBER: RAB00885  
 ISSUE DATE: 06/03/15 PAGE: 1 OF 9  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: MASI16-52W/D10  
 LUMINAIRE: CAST METAL HOUSING, CAST METAL HEAT SINK, 1 WHITE CIRCUIT BOARD WITH 121 LEDS, CLEAR FLAT GLASS DOOR IN CAST WHITE PAINTED METAL FRAME.  
 LAMP: ONE HUNDRED AND TWENTY ONE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.  
 TOTAL INPUT WATTS = 54.218 AT 120.0 VOLTS  
 LED DRIVERS: RD-052-A1400-C  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE TO THE LED DRIVERS.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 28.25 FEET  
 \*(SEE PAGE 2 FOR MORE INFORMATION) \*



REPORT NUMBER: RAB00885  
ISSUE DATE: 06/03/15  
PREPARED FOR: RAB LIGHTING INC.

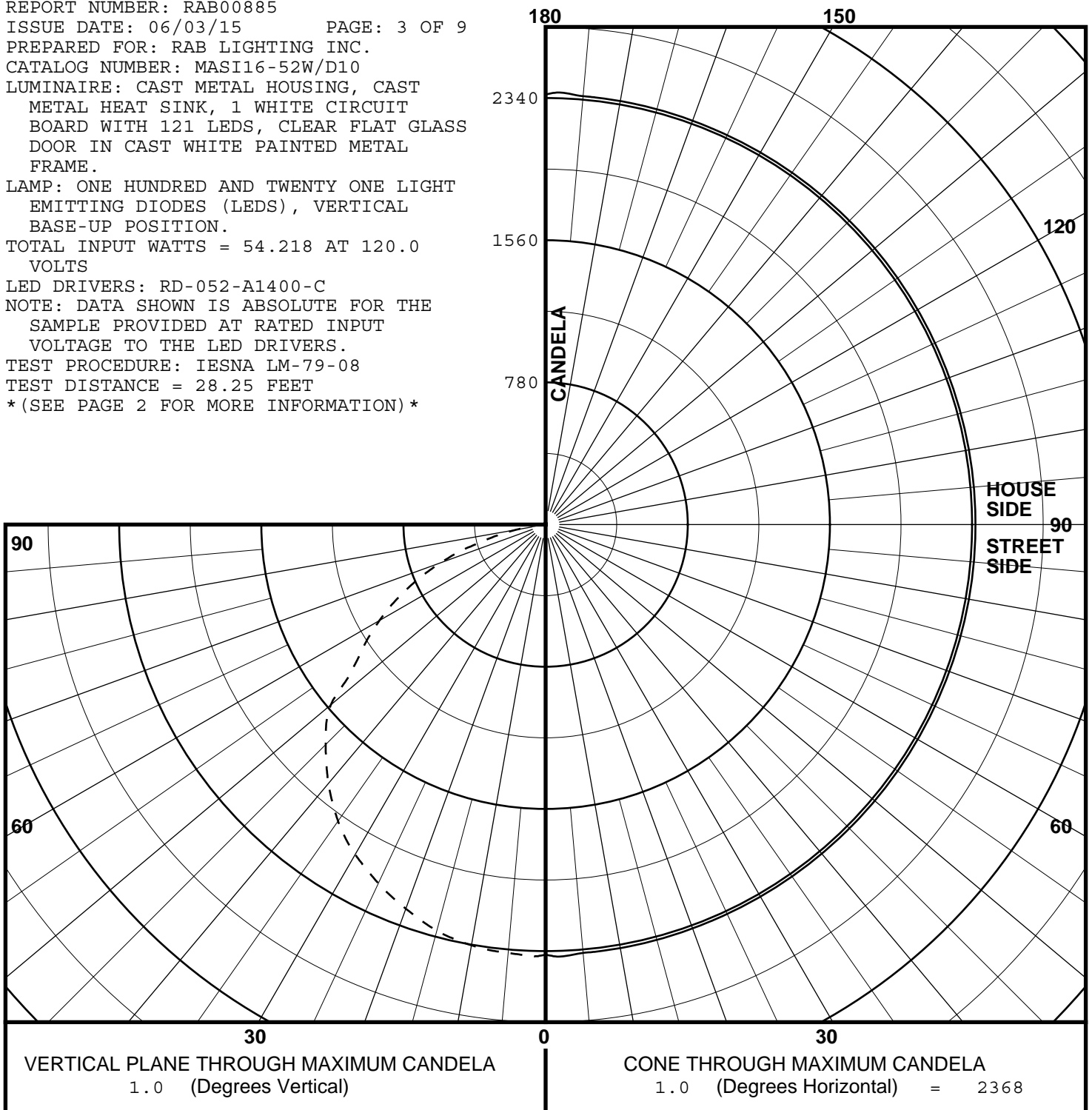
PAGE: 2 OF 9

ADDITIONAL INFORMATION

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
ACCREDITED LABORATORY CODE 201058-0

## MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

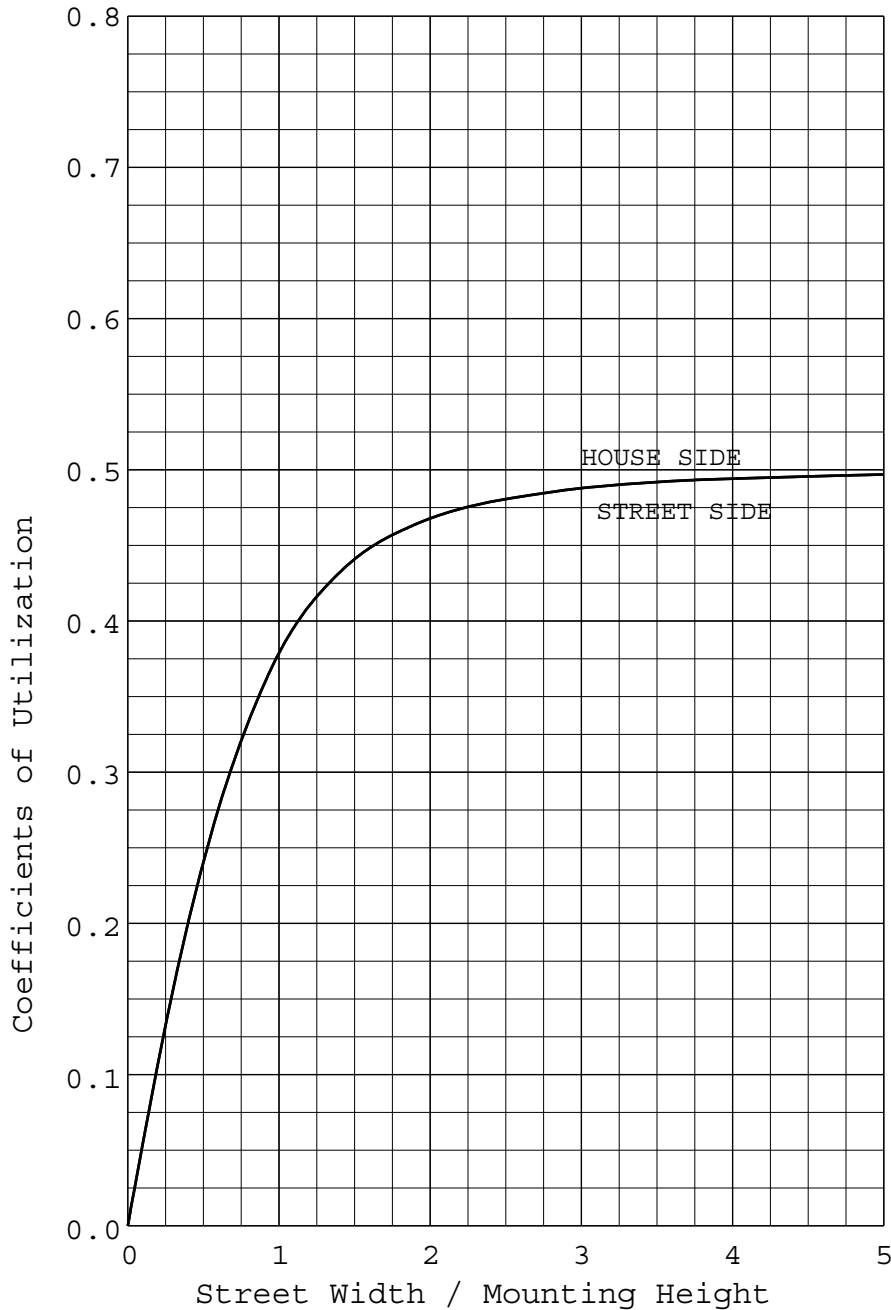
REPORT NUMBER: RAB00885  
 ISSUE DATE: 06/03/15 PAGE: 3 OF 9  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: MASI16-52W/D10  
 LUMINAIRE: CAST METAL HOUSING, CAST  
 METAL HEAT SINK, 1 WHITE CIRCUIT  
 BOARD WITH 121 LEDS, CLEAR FLAT GLASS  
 DOOR IN CAST WHITE PAINTED METAL  
 FRAME.  
 LAMP: ONE HUNDRED AND TWENTY ONE LIGHT  
 EMITTING DIODES (LEDS), VERTICAL  
 BASE-UP POSITION.  
 TOTAL INPUT WATTS = 54.218 AT 120.0  
 VOLTS  
 LED DRIVERS: RD-052-A1400-C  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
 SAMPLE PROVIDED AT RATED INPUT  
 VOLTAGE TO THE LED DRIVERS.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 28.25 FEET  
 \*(SEE PAGE 2 FOR MORE INFORMATION)\*



REPORT NUMBER: RAB00885  
ISSUE DATE: 06/03/15  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 9

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



|                          | LUMENS | PERCENT<br>OF FIXTURE |
|--------------------------|--------|-----------------------|
| DOWNWARD<br>STREET SIDE  | 3391.  | 50.0                  |
| DOWNWARD<br>HOUSE SIDE   | 3391.  | 50.0                  |
| DOWNWARD<br>TOTAL        | 6782.  | 100.0                 |
| UPWARD<br>STREET SIDE    | 0.     | 0.0                   |
| UPWARD<br>HOUSE SIDE     | 0.     | 0.0                   |
| UPWARD<br>TOTAL          | 0.     | 0.0                   |
| TOTAL<br>FLUX            | 6782.  | 100.0                 |
| TOTAL INPUT WATTS = 54.2 |        |                       |
| EFFICACY = 125.1 Lm/W    |        |                       |

ALL CANDELA AND LUMENS 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: RAB00885  
 ISSUE DATE: 06/03/15  
 PREPARED FOR: RAB LIGHTING INC.

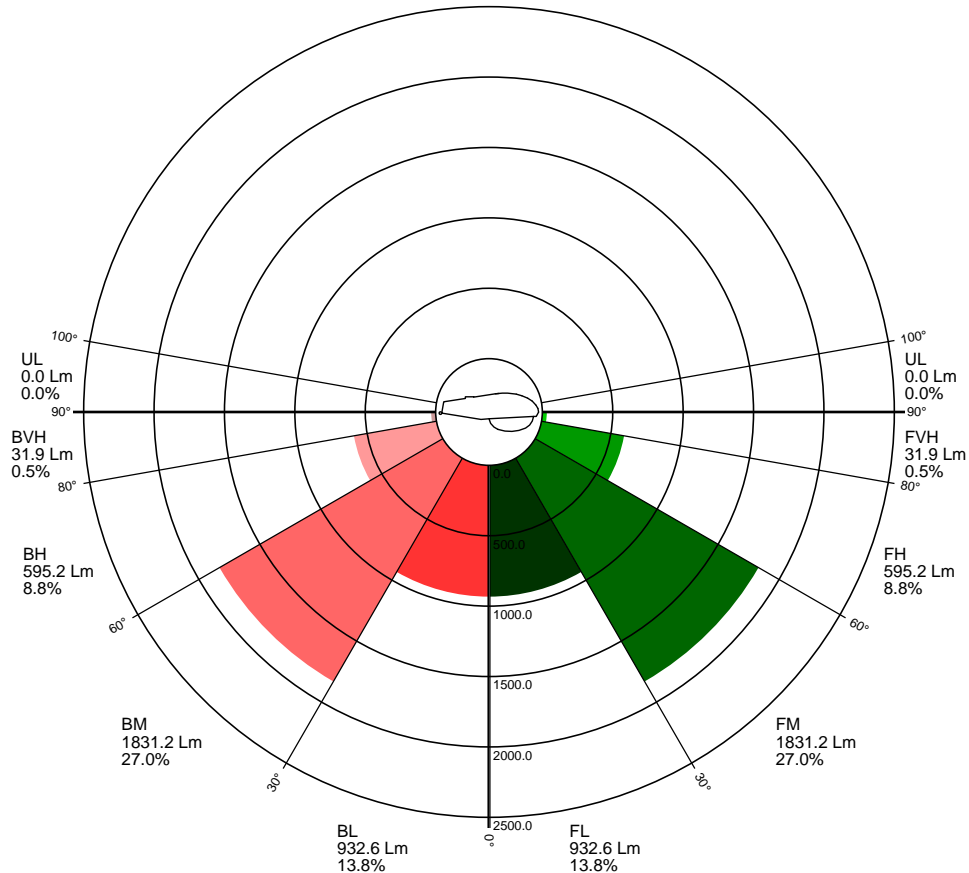
PAGE: 5 OF 9

| BUG Rating:   |               |        |              | B2 U0 G1     |    |    |
|---------------|---------------|--------|--------------|--------------|----|----|
| Zonal Summary |               | Lumens | % of Fixture | Zone Ratings |    |    |
|               |               |        |              | B            | U  | G  |
| Forward       |               | 3391   | 50.0         |              |    |    |
| FL            | (0° - 30°)    | 932.6  | 13.8         |              |    |    |
| FM            | (30° - 60°)   | 1831.2 | 27.0         |              |    |    |
| FH            | (60° - 80°)   | 595.2  | 8.8          |              |    | G0 |
| FVH           | (80° - 90°)   | 31.9   | 0.5          |              |    | G1 |
| Backward      |               | 3391   | 50.0         |              |    |    |
| BL            | (0° - 30°)    | 932.6  | 13.8         | B2           |    |    |
| BM            | (30° - 60°)   | 1831.2 | 27.0         | B2           |    |    |
| BH            | (60° - 80°)   | 595.2  | 8.8          | B2           |    | G0 |
| BVH           | (80° - 90°)   | 31.9   | 0.5          |              |    | G1 |
| Upward        |               | 0      | 0.0          |              |    |    |
| UL            | (90° - 100°)  | 0.0    | 0.0          |              | U0 |    |
| UH            | (100° - 180°) | 0.0    | 0.0          |              | U0 |    |
| Trapped Light |               | 0      | 0.0          |              |    |    |
| Total Flux    |               | 6782   | 100.0        |              |    |    |

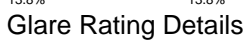
### Zonal Lumen Summary

(Linear scale)

UH  
0.0 Lm  
0.0%



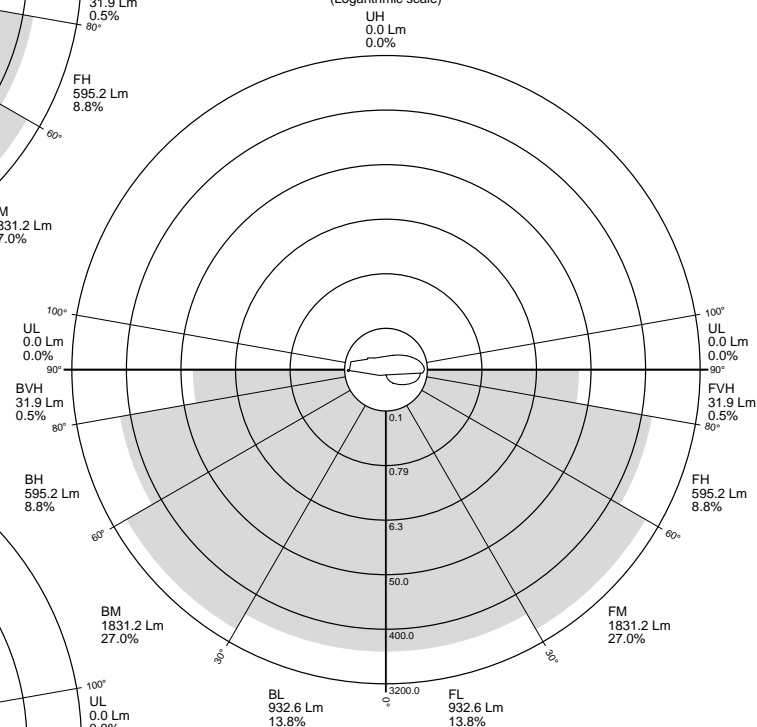
(Logarithmic scale)



(Logarithmic scale)



(Logarithmic scale)



REPORT NUMBER: RAB00885  
 ISSUE DATE: 06/03/15  
 PREPARED FOR: RAB LIGHTING INC.

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### CANDELA TABULATION

|   | STREET SIDE |       | LATERAL ANGLE |       |       |       |       |       |       |       |       |
|---|-------------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
|   | 0.0         | 1.0   | 5.0           | 15.0  | 25.0  | 35.0  | 45.0  | 55.0  | 65.0  | 75.0  | 85.0  |
|   |             |       |               |       |       |       |       |       |       |       |       |
|   | 90.0        | 0.    | 0.            | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    |
|   | 87.5        | 17.   | 16.           | 17.   | 18.   | 19.   | 19.   | 20.   | 20.   | 19.   | 18.   |
|   | 85.0        | 41.   | 42.           | 42.   | 42.   | 43.   | 42.   | 43.   | 44.   | 44.   | 44.   |
|   | 82.5        | 92.   | 92.           | 91.   | 90.   | 92.   | 87.   | 90.   | 90.   | 95.   | 91.   |
|   | 80.0        | 160.  | 164.          | 161.  | 161.  | 162.  | 162.  | 153.  | 165.  | 165.  | 167.  |
|   | 77.5        | 256.  | 267.          | 260.  | 261.  | 243.  | 241.  | 258.  | 246.  | 244.  | 262.  |
|   | 75.0        | 350.  | 362.          | 352.  | 355.  | 349.  | 358.  | 359.  | 362.  | 348.  | 356.  |
|   | 72.5        | 486.  | 498.          | 485.  | 490.  | 481.  | 457.  | 457.  | 458.  | 480.  | 483.  |
|   | 70.0        | 597.  | 614.          | 598.  | 603.  | 601.  | 560.  | 559.  | 563.  | 600.  | 597.  |
| V | 67.5        | 713.  | 730.          | 712.  | 713.  | 717.  | 688.  | 662.  | 680.  | 713.  | 708.  |
| E | 65.0        | 822.  | 842.          | 823.  | 821.  | 825.  | 820.  | 762.  | 821.  | 823.  | 817.  |
| R | 62.5        | 932.  | 951.          | 932.  | 929.  | 931.  | 931.  | 911.  | 933.  | 930.  | 927.  |
| T | 60.0        | 1036. | 1053.         | 1033. | 1032. | 1032. | 1037. | 1108. | 1047. | 1029. | 1028. |
| I | 57.5        | 1126. | 1152.         | 1130. | 1128. | 1130. | 1187. | 1228. | 1194. | 1132. | 1125. |
| C | 55.0        | 1218. | 1244.         | 1220. | 1224. | 1260. | 1331. | 1327. | 1327. | 1279. | 1236. |
| A | 52.5        | 1334. | 1357.         | 1341. | 1379. | 1424. | 1424. | 1424. | 1428. | 1418. | 1385. |
| L | 50.0        | 1510. | 1539.         | 1512. | 1521. | 1515. | 1516. | 1519. | 1517. | 1516. | 1515. |
|   | 47.5        | 1605. | 1634.         | 1603. | 1608. | 1602. | 1601. | 1599. | 1601. | 1600. | 1605. |
| A | 45.0        | 1684. | 1707.         | 1683. | 1690. | 1682. | 1681. | 1681. | 1682. | 1683. | 1684. |
| N | 42.5        | 1759. | 1781.         | 1759. | 1764. | 1758. | 1757. | 1756. | 1755. | 1758. | 1759. |
| G | 40.0        | 1830. | 1854.         | 1829. | 1831. | 1829. | 1826. | 1826. | 1826. | 1827. | 1829. |
| L | 37.5        | 1897. | 1922.         | 1896. | 1898. | 1895. | 1892. | 1892. | 1893. | 1896. | 1895. |
| E | 35.0        | 1961. | 1986.         | 1959. | 1960. | 1960. | 1957. | 1954. | 1956. | 1958. | 1958. |
|   | 30.0        | 2067. | 2090.         | 2067. | 2065. | 2070. | 2067. | 2066. | 2066. | 2067. | 2067. |
|   | 25.0        | 2156. | 2172.         | 2155. | 2152. | 2158. | 2158. | 2157. | 2157. | 2154. | 2156. |
|   | 20.0        | 2228. | 2243.         | 2229. | 2228. | 2229. | 2231. | 2233. | 2232. | 2230. | 2230. |
|   | 15.0        | 2289. | 2307.         | 2290. | 2292. | 2290. | 2290. | 2291. | 2292. | 2292. | 2292. |
|   | 10.0        | 2327. | 2344.         | 2331. | 2332. | 2330. | 2328. | 2327. | 2331. | 2329. | 2330. |
|   | 5.0         | 2347. | 2359.         | 2349. | 2349. | 2347. | 2346. | 2347. | 2349. | 2348. | 2349. |
|   | 1.0<<       | 2359. | 2368.         | 2359. | 2359. | 2357. | 2357. | 2357. | 2358. | 2357. | 2358. |
|   | 0.0         | 2359. | 2359.         | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. |

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: RAB00885  
 ISSUE DATE: 06/03/15  
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 8 OF 9

### CANDELA TABULATION

HOUSE SIDE

### LATERAL ANGLE

|   | 90.0  | 95.0  | 105.0 | 115.0 | 125.0 | 135.0 | 145.0 | 155.0 | 165.0 | 175.0 | 180.0 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   | 90.0  | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    |
|   | 87.5  | 18.   | 18.   | 19.   | 19.   | 20.   | 20.   | 19.   | 18.   | 17.   | 17.   |
|   | 85.0  | 45.   | 44.   | 44.   | 44.   | 44.   | 43.   | 42.   | 43.   | 42.   | 41.   |
|   | 82.5  | 95.   | 94.   | 91.   | 95.   | 90.   | 90.   | 87.   | 92.   | 90.   | 91.   |
|   | 80.0  | 171.  | 169.  | 167.  | 165.  | 165.  | 153.  | 162.  | 162.  | 161.  | 161.  |
|   | 77.5  | 261.  | 259.  | 262.  | 244.  | 246.  | 258.  | 241.  | 243.  | 261.  | 260.  |
|   | 75.0  | 356.  | 356.  | 356.  | 348.  | 362.  | 359.  | 358.  | 349.  | 355.  | 352.  |
|   | 72.5  | 482.  | 482.  | 483.  | 480.  | 458.  | 457.  | 457.  | 481.  | 490.  | 485.  |
|   | 70.0  | 595.  | 602.  | 597.  | 600.  | 563.  | 559.  | 560.  | 601.  | 603.  | 598.  |
| V | 67.5  | 708.  | 715.  | 708.  | 713.  | 680.  | 662.  | 688.  | 717.  | 713.  | 712.  |
| E | 65.0  | 814.  | 825.  | 817.  | 823.  | 821.  | 762.  | 820.  | 825.  | 821.  | 823.  |
| R | 62.5  | 930.  | 933.  | 927.  | 930.  | 933.  | 911.  | 931.  | 931.  | 929.  | 932.  |
| T | 60.0  | 1031. | 1035. | 1028. | 1029. | 1047. | 1108. | 1037. | 1032. | 1032. | 1033. |
| I | 57.5  | 1128. | 1133. | 1125. | 1132. | 1194. | 1228. | 1187. | 1130. | 1128. | 1130. |
| C | 55.0  | 1225. | 1225. | 1236. | 1279. | 1327. | 1327. | 1331. | 1260. | 1224. | 1220. |
| A | 52.5  | 1353. | 1358. | 1385. | 1418. | 1428. | 1424. | 1424. | 1424. | 1379. | 1341. |
| L | 50.0  | 1503. | 1506. | 1515. | 1516. | 1517. | 1519. | 1516. | 1515. | 1521. | 1512. |
|   | 47.5  | 1600. | 1601. | 1605. | 1600. | 1601. | 1599. | 1601. | 1602. | 1608. | 1603. |
| A | 45.0  | 1682. | 1683. | 1684. | 1683. | 1682. | 1681. | 1681. | 1682. | 1690. | 1683. |
| N | 42.5  | 1755. | 1757. | 1759. | 1758. | 1755. | 1756. | 1757. | 1758. | 1764. | 1759. |
| G | 40.0  | 1825. | 1827. | 1829. | 1827. | 1826. | 1826. | 1826. | 1829. | 1831. | 1829. |
| L | 37.5  | 1892. | 1894. | 1895. | 1896. | 1893. | 1892. | 1892. | 1895. | 1898. | 1896. |
| E | 35.0  | 1957. | 1957. | 1958. | 1958. | 1956. | 1954. | 1957. | 1960. | 1960. | 1959. |
|   | 30.0  | 2069. | 2066. | 2067. | 2067. | 2066. | 2066. | 2067. | 2070. | 2065. | 2067. |
|   | 25.0  | 2154. | 2155. | 2156. | 2154. | 2157. | 2157. | 2158. | 2158. | 2152. | 2155. |
|   | 20.0  | 2224. | 2230. | 2230. | 2230. | 2232. | 2233. | 2231. | 2229. | 2228. | 2229. |
|   | 15.0  | 2289. | 2292. | 2292. | 2292. | 2292. | 2291. | 2290. | 2290. | 2292. | 2290. |
|   | 10.0  | 2328. | 2331. | 2330. | 2329. | 2331. | 2327. | 2328. | 2330. | 2332. | 2331. |
|   | 5.0   | 2348. | 2350. | 2349. | 2348. | 2349. | 2347. | 2346. | 2347. | 2349. | 2349. |
|   | 1.0<< | 2358. | 2359. | 2358. | 2357. | 2358. | 2357. | 2357. | 2357. | 2359. | 2359. |
|   | 0.0   | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. | 2359. |

CONE OF MAXIMUM CANDELA



REPORT NUMBER: RAB00885  
ISSUE DATE: 06/03/15  
PREPARED FOR: RAB LIGHTING INC.

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5-DEGREE  
ZONAL LUMEN SUMMARY

|        |     |
|--------|-----|
| 0- 5   | 56  |
| 5- 10  | 167 |
| 10- 15 | 274 |
| 15- 20 | 373 |
| 20- 25 | 460 |
| 25- 30 | 535 |
| 30- 35 | 593 |
| 35- 40 | 632 |
| 40- 45 | 650 |
| 45- 50 | 647 |
| 50- 55 | 606 |
| 55- 60 | 534 |
| 60- 65 | 451 |
| 65- 70 | 355 |
| 70- 75 | 247 |
| 75- 80 | 137 |
| 80- 85 | 53  |
| 85- 90 | 11  |

10-DEGREE  
ZONAL LUMEN SUMMARY

|       |      |
|-------|------|
| 0- 10 | 224  |
| 0- 20 | 871  |
| 0- 30 | 1865 |
| 0- 40 | 3090 |
| 0- 50 | 4387 |
| 0- 60 | 5528 |
| 0- 70 | 6334 |
| 0- 80 | 6718 |
| 0- 90 | 6782 |

REPORT NUMBER: RAB00918  
 DATE: 6/3/2015  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: MASI16-52W/D10

ADDRESS: 170 LUDLOW AVE, NORTHVALE, NJ 07647

LUMINAIRE: CAST METAL HOUSING, CAST METAL HEAT SINK, 1 WHITE CIRCUIT BOARD WITH 121 LEDS, CLEAR FLAT GLASS DOOR IN CAST WHITE PAINTED METAL FRAME.

LAMP: ONE HUNDRED AND TWENTY ONE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

DRIVER: RD-052-A1400-C

OBJECT OF TEST: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT THE RATED INPUT VOLTAGES (120.0 AND 277.0 VAC, 60Hz) TO THE TEST SAMPLE.

|              |   |                      |
|--------------|---|----------------------|
| INSTRUMENTS: | CHROMA PROGRAMMABLE AC POWER SOURCE MODEL 61602         | Calibration Due: N/A |
|              | CHROMA PROGRAMMABLE DIGITAL POWER METER MODEL 66202     | 3/9/16               |
|              | OCEAN OPTICS QE65PRO Spectroradiometer                  | 6/2/16               |
|              | RAB 2.0 meter Diameter Integrating Sphere, 4PI Geometry | 6/2/16               |

OBJECT OF TEST: Measure the Absolute Flux in lumens\*, Total Radiant Flux\*, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRIa,1-14), Chromaticity Coordinates (x,y; u'v'), ANSI C78.377 Duv, and electrical data including ANSI C82.77-2002 Power Factor (PF), and Total Harmonic Distortion (THD) to the test sample. Measure electrical data including Total Harmonic Distortion (THD) at maximum nominal rated input voltage. Report Off-State Power.

PROCEDURE: The test sample was mounted inside the integrating sphere, energized, and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 60 HZ input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. Electrical data was also recorded at maximum nominal rated input voltage (277.0 VAC). All data are traceable to the National Institute of Standards and Technology. Off-State Power was reported with no voltage applied to the sample.

\*NOTE: Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.

RESULTS: (continued subsequent pages)

|          |   |
|----------|---|
| Checked  | <u>X.CAO</u>                              |
| Approved | <u>D.WANG-MUNSON</u><br>Lighting Engineer |

REPORT NUMBER: RAB00918  
 DATE: 6/3/2015  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: MASI16-52W/D10

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### RESULTS:

| PHOTOMETRIC                     |                   |
|---------------------------------|-------------------|
| Total Integrated Flux (lumens)  | 6782 *            |
| SPECTRORADIOMETRIC              |                   |
| Observer                        | CIE 1931 2 degree |
| Chromaticity Ordinate x         | 0.3424            |
| Chromaticity Ordinate y         | 0.3506            |
| Observer                        | CIE 1976 2 degree |
| Chromaticity Ordinate u'        | 0.2100            |
| Chromaticity Ordinate v'        | 0.4838            |
| Correlated Color Temp CCT (K)   | 5101              |
| ANSI C78.377-2008 Duv           | 0.001             |
| Total Radiant Flux (milliWatts) | 20556 *           |
| ELECTRICAL                      |                   |
| Input Voltage (Volts AC)        | 120.0             |
| Input Current (Amps AC)         | 0.455             |
| Input Power (Watts)             | 54.2              |
| Input Power Factor (%)          | 99.3              |
| Input Current THD (%)           | 5.5               |
| Input Voltage THD (%)           | 0.2               |
| EFFICACY (Lumens/Watt)          |                   |
|                                 | 125.1             |
| ELECTRICAL AT MAX NONIMAL INPUT |                   |
| Input Voltage (Volts AC)        | 277.0             |
| Input Current (Amps AC)         | 0.203             |
| Input Power (Watts)             | 54.2              |
| Input Power Factor (%)          | 96.4              |
| Input Current THD (%)           | 9.1               |
| Input Voltage THD (%)           | 0.2               |
| Off-State Power (Watts)         | 0.0               |

| COLOR RENDERING INDICES         | CRI |
|---------------------------------|-----|
| Ra (Average 1-8)                | 74  |
| R1 Light greyish red            | 73  |
| R2 Dark greyish yellow          | 78  |
| R3 Strong yellowish green       | 81  |
| R4 Moderate yellowish green     | 76  |
| R5 Light bluish green           | 74  |
| R6 Light blue                   | 70  |
| R7 Light violet                 | 81  |
| R8 Light reddish purple         | 60  |
| R9 Strong red                   | -19 |
| R10 Strong yellow               | 47  |
| R11 Strong green                | 74  |
| R12 Strong blue                 | 47  |
| R13 Light yellowish pink (skin) | 73  |
| R14 Moderate olive green (leaf) | 89  |

### \*NOTE:

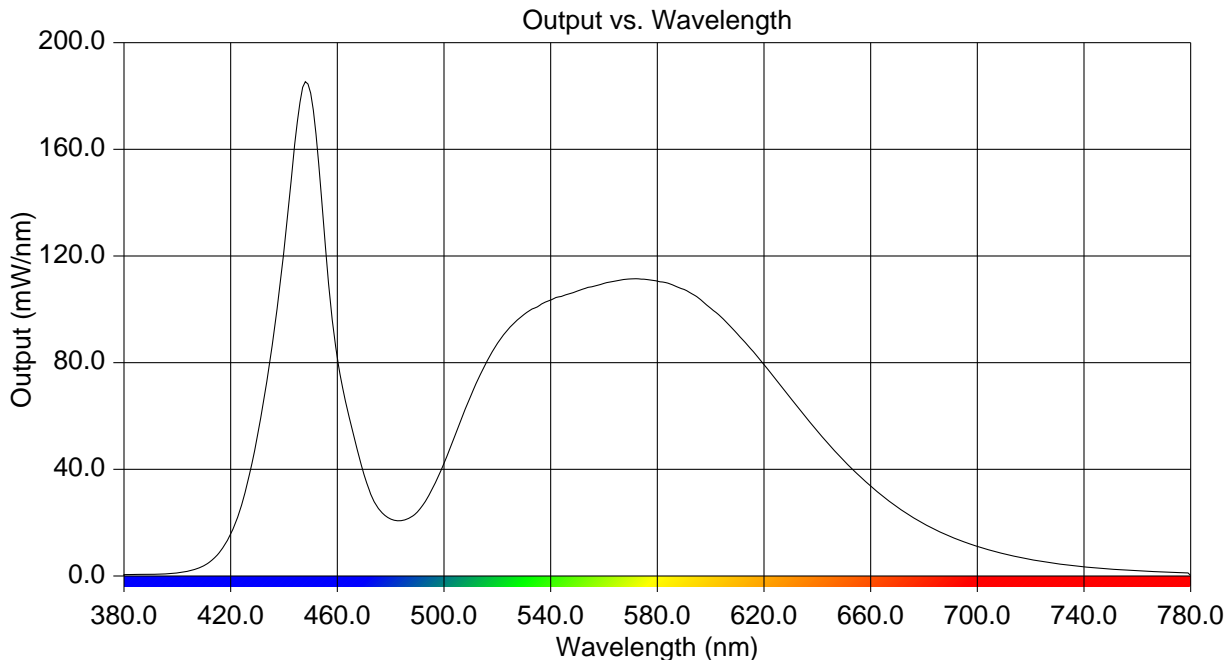
Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.

REPORT NUMBER: RAB00918  
 DATE: 6/3/2015  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: MASI16-52W/D10

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### RESULTS:

| Wavelength | mW per nm | Wavelength | mW per nm | Wavelength | mW per nm |
|------------|-----------|------------|-----------|------------|-----------|
| 380        | 0.498     | 515        | 78.313    | 650        | 43.266    |
| 385        | 0.533     | 520        | 87.130    | 655        | 38.271    |
| 390        | 0.621     | 525        | 93.626    | 660        | 33.734    |
| 395        | 0.800     | 530        | 98.059    | 665        | 29.568    |
| 400        | 1.171     | 535        | 100.908   | 670        | 25.818    |
| 405        | 1.996     | 540        | 103.492   | 675        | 22.511    |
| 410        | 3.916     | 545        | 105.178   | 680        | 19.538    |
| 415        | 7.883     | 550        | 106.852   | 685        | 16.998    |
| 420        | 15.702    | 555        | 108.385   | 690        | 14.762    |
| 425        | 29.746    | 560        | 109.733   | 695        | 12.801    |
| 430        | 52.400    | 565        | 110.777   | 700        | 11.085    |
| 435        | 82.800    | 570        | 111.405   | 705        | 9.593     |
| 440        | 122.084   | 575        | 111.303   | 710        | 8.310     |
| 445        | 170.317   | 580        | 110.575   | 715        | 7.165     |
| 450        | 181.087   | 585        | 109.447   | 720        | 6.184     |
| 455        | 130.220   | 590        | 107.472   | 725        | 5.330     |
| 460        | 81.768    | 595        | 104.629   | 730        | 4.605     |
| 465        | 57.251    | 600        | 100.417   | 735        | 3.988     |
| 470        | 38.044    | 605        | 96.147    | 740        | 3.452     |
| 475        | 25.957    | 610        | 90.811    | 745        | 2.986     |
| 480        | 21.382    | 615        | 85.225    | 750        | 2.594     |
| 485        | 20.972    | 620        | 79.293    | 755        | 2.247     |
| 490        | 23.980    | 625        | 73.133    | 760        | 1.954     |
| 495        | 31.427    | 630        | 66.645    | 765        | 1.691     |
| 500        | 42.321    | 635        | 60.333    | 770        | 1.481     |
| 505        | 54.952    | 640        | 54.416    | 775        | 1.290     |
| 510        | 67.416    | 645        | 48.611    | 780        | 0.196     |



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## CIE Chromaticity Diagram

