



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L081910636



Report No: L081910636

Issue Date: 9/6/2019

Report Prepared For: Number Eight Lighting Company
526 Portal Street, Cotati, CA 94931

Model Number: 202-S-HI-3000-25/DIM1-2-SO/FLS-2-WH

Test: Photometric/Electrical Test

Standards Used: Appropriate part or all test guidelines were used for test performed:

IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products

ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Special Test Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 8/16/19

Date of Tests: 8/28/19 - 9/6/19

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

| Equipment Used | Model No | Stock No | Calibration Due Date |
|-----------------------------------|------------|------------|----------------------|
| Chroma Programmable AC Source | 61604 | PS-AC02 | -- |
| Yokogawa Digital Power Meter | WT210 | MT-EL06-S4 | 1/9/21 |
| BK PRECISION | 1747 | PS-DC04 | 1/10/21 |
| Fluke Digital Thermometer | 52K/J | MT-TP05 | 1/10/21 |
| LLI Type C Goniophotometer System | RMG-C-MKII | CD-LL04-GC | -- |
| LLI 2M Sphere | 2MR97 | CD-SN03-S2 | -- |
| LLI Spectroradiometer | SPR-3000 | MT-SC01-S2 | Before Use |

General Information

| | |
|-----------------------------|-------------------------------------|
| Manufacturer: | Number Eight Lighting Company |
| Model Number: | 202-S-HI-3000-25/DIM1-2-SO/FLS-2-WH |
| Driver Model Number: | INTUITIVE SYSTEMS ISD-701-350-15-D |

Photometric & Electrical Test Results

| | |
|----------------------------------|--------|
| Total Lumens: | 840.38 |
| Efficacy: | 60.27 |
| Input Voltage (VAC/60Hz): | 119.98 |
| Input Current (Amp): | 0.1172 |
| Input Power (W): | 13.94 |
| Input Power Factor: | 0.9913 |
| Current ATHD (%): | 7.7% |

Test Condition

| | |
|--------------------------------------|------|
| Ambient Temperature (°C): | 25.0 |
| Stabilization Time (Hours): | 1:00 |
| Total Operating Time (Hours): | 2:20 |

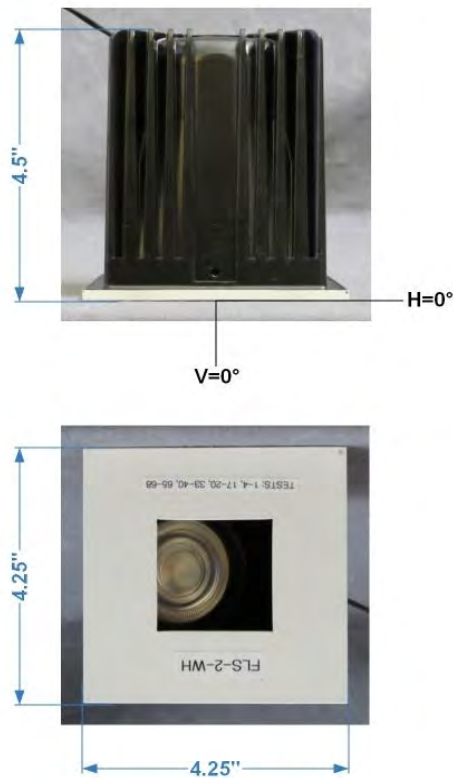


FIG. 1 LUMINAIRE



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L081910636



Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 10*



8165 E. Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L081910636.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L081910636
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 9/6/2019
[MANUFAC] Number Eight Lighting Company
[LUMCAT] 202-S-HI-3000-25/DIM1-2-SO/FLS-2-WH
[LUMINAIRE] LED Recessed Adjustable Downlight, 30° Aiming Angle, 3000K 90+ CRI, 25° Beam Spread
[MORE] Standard Output 1% Dimming Driver, Square Flanged Trim, 1.875" x 1.875" Aperture
[BALLASTCAT] INTUITIVE SYSTEMS ISD-701-350-15-D
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 119.98VAC, 13.94W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 840 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 60 |
| Total Luminaire Watts | 13.94 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 2.42 |
| Spacing Criterion (90-270) | 0.74 |
| Spacing Criterion (Diagonal) | 1.18 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.15 ft |
| Luminous Width (90-270) | 0.15 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 734726 | 63537 | 4731 |
| 55 | 104160 | 17499 | 833 |
| 65 | 18095 | 3393 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L081910636.IES

CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|-------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 |
| 2.5 | 239 | 239 | 237 | 236 | 236 | 233 | 231 | 228 | 225 | 222 |
| 5.0 | 344 | 343 | 340 | 336 | 330 | 322 | 313 | 303 | 292 | 279 |
| 7.5 | 502 | 499 | 490 | 479 | 461 | 442 | 420 | 398 | 373 | 348 |
| 10.0 | 760 | 753 | 734 | 704 | 665 | 622 | 572 | 523 | 472 | 425 |
| 12.5 | 1148 | 1132 | 1095 | 1035 | 954 | 866 | 774 | 681 | 590 | 511 |
| 15.0 | 1625 | 1606 | 1543 | 1444 | 1311 | 1167 | 1007 | 857 | 719 | 598 |
| 17.0 | 2034 | 2003 | 1919 | 1792 | 1615 | 1410 | 1205 | 1002 | 810 | 651 |
| 19.0 | 2415 | 2367 | 2267 | 2105 | 1884 | 1642 | 1378 | 1119 | 888 | 695 |
| 21.0 | 2721 | 2692 | 2571 | 2387 | 2131 | 1831 | 1522 | 1213 | 931 | 712 |
| 23.0 | 2999 | 2943 | 2817 | 2597 | 2305 | 1978 | 1621 | 1265 | 959 | 710 |
| 25.0 | 3196 | 3146 | 3004 | 2773 | 2447 | 2063 | 1670 | 1279 | 939 | 681 |
| 27.0 | 3296 | 3237 | 3080 | 2831 | 2501 | 2085 | 1652 | 1250 | 908 | 641 |
| 29.0 | 3303 | 3240 | 3089 | 2823 | 2457 | 2033 | 1603 | 1184 | 829 | 572 |
| 31.0 | 3230 | 3159 | 2982 | 2716 | 2345 | 1917 | 1468 | 1072 | 749 | 505 |
| 33.0 | 3094 | 3030 | 2844 | 2553 | 2164 | 1733 | 1317 | 937 | 629 | 424 |
| 35.0 | 2896 | 2831 | 2625 | 2322 | 1939 | 1514 | 1123 | 781 | 525 | 351 |
| 37.0 | 2622 | 2544 | 2343 | 2045 | 1675 | 1277 | 915 | 624 | 419 | 262 |
| 39.0 | 2280 | 2210 | 2018 | 1734 | 1387 | 1034 | 735 | 492 | 322 | 220 |
| 41.0 | 1902 | 1829 | 1639 | 1377 | 1081 | 806 | 567 | 376 | 253 | 169 |
| 43.0 | 1481 | 1427 | 1268 | 1055 | 821 | 600 | 417 | 264 | 189 | 126 |
| 45.0 | 1087 | 1037 | 915 | 752 | 584 | 432 | 308 | 212 | 141 | 94 |
| 50.0 | 388 | 371 | 330 | 282 | 232 | 186 | 138 | 94 | 63 | 45 |
| 55.0 | 125 | 120 | 108 | 94 | 79 | 66 | 53 | 39 | 29 | 21 |
| 60.0 | 44 | 43 | 39 | 35 | 30 | 25 | 21 | 17 | 12 | 8 |
| 65.0 | 16 | 15 | 13 | 12 | 10 | 8 | 7 | 6 | 4 | 3 |
| 70.0 | 6 | 5 | 5 | 4 | 3 | 3 | 2 | 2 | 1 | 1 |
| 75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Angles **Horizontal Angles**

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> | <u>95</u> |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 |
| 2.5 | 218 | 214 | 211 | 207 | 203 | 199 | 195 | 191 | 187 | 183 |
| 5.0 | 267 | 254 | 243 | 232 | 221 | 210 | 200 | 190 | 181 | 173 |
| 7.5 | 325 | 302 | 279 | 255 | 236 | 217 | 201 | 186 | 173 | 160 |
| 10.0 | 381 | 343 | 300 | 275 | 246 | 221 | 197 | 179 | 162 | 145 |
| 12.5 | 440 | 378 | 328 | 286 | 251 | 217 | 191 | 169 | 150 | 132 |
| 15.0 | 495 | 408 | 339 | 286 | 245 | 211 | 180 | 157 | 137 | 120 |
| 17.0 | 521 | 419 | 342 | 282 | 238 | 203 | 172 | 148 | 128 | 110 |
| 19.0 | 541 | 422 | 336 | 274 | 227 | 191 | 162 | 137 | 118 | 101 |
| 21.0 | 537 | 409 | 322 | 261 | 214 | 179 | 151 | 128 | 109 | 93 |
| 23.0 | 525 | 391 | 293 | 241 | 197 | 164 | 138 | 117 | 99 | 84 |
| 25.0 | 489 | 359 | 271 | 219 | 178 | 149 | 125 | 106 | 90 | 75 |
| 27.0 | 448 | 325 | 248 | 194 | 158 | 131 | 110 | 95 | 80 | 67 |
| 29.0 | 399 | 267 | 216 | 169 | 137 | 114 | 95 | 82 | 70 | 59 |
| 31.0 | 340 | 246 | 184 | 142 | 114 | 95 | 79 | 67 | 58 | 51 |
| 33.0 | 262 | 204 | 152 | 117 | 93 | 75 | 62 | 53 | 46 | 40 |
| 35.0 | 239 | 169 | 123 | 91 | 71 | 56 | 46 | 39 | 34 | 30 |
| 37.0 | 194 | 134 | 95 | 68 | 52 | 40 | 32 | 27 | 23 | 21 |
| 39.0 | 150 | 107 | 71 | 51 | 38 | 29 | 23 | 19 | 16 | 14 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L081910636.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------|-----|----|----|----|----|----|----|----|----|----|
| 41.0 | 119 | 78 | 53 | 37 | 28 | 21 | 17 | 14 | 12 | 10 |
| 43.0 | 85 | 59 | 41 | 29 | 22 | 17 | 14 | 11 | 9 | 8 |
| 45.0 | 64 | 45 | 32 | 23 | 17 | 13 | 10 | 8 | 7 | 6 |
| 50.0 | 32 | 23 | 17 | 12 | 8 | 6 | 5 | 4 | 3 | 2 |
| 55.0 | 15 | 11 | 7 | 5 | 4 | 3 | 2 | 2 | 1 | 1 |
| 60.0 | 6 | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 0 | 0 |
| 65.0 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 70.0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
| 0.0 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 |
| 2.5 | 179 | 175 | 172 | 168 | 165 | 162 | 160 | 157 | 155 | 154 |
| 5.0 | 164 | 157 | 150 | 143 | 138 | 133 | 128 | 124 | 120 | 117 |
| 7.5 | 148 | 138 | 129 | 121 | 114 | 107 | 102 | 96 | 91 | 87 |
| 10.0 | 132 | 121 | 111 | 101 | 93 | 86 | 79 | 73 | 68 | 64 |
| 12.5 | 118 | 106 | 94 | 84 | 75 | 67 | 60 | 54 | 49 | 45 |
| 15.0 | 105 | 92 | 80 | 69 | 59 | 51 | 45 | 39 | 34 | 31 |
| 17.0 | 95 | 82 | 69 | 58 | 49 | 41 | 35 | 30 | 26 | 24 |
| 19.0 | 89 | 73 | 60 | 49 | 40 | 32 | 27 | 23 | 21 | 19 |
| 21.0 | 78 | 64 | 52 | 41 | 32 | 26 | 21 | 19 | 17 | 16 |
| 23.0 | 70 | 56 | 44 | 34 | 25 | 20 | 17 | 16 | 14 | 13 |
| 25.0 | 62 | 49 | 37 | 27 | 20 | 17 | 15 | 13 | 12 | 11 |
| 27.0 | 55 | 42 | 31 | 22 | 16 | 14 | 12 | 11 | 10 | 9 |
| 29.0 | 48 | 37 | 25 | 17 | 13 | 12 | 10 | 9 | 8 | 7 |
| 31.0 | 41 | 30 | 20 | 14 | 11 | 10 | 9 | 8 | 6 | 5 |
| 33.0 | 33 | 25 | 16 | 11 | 10 | 8 | 7 | 6 | 4 | 3 |
| 35.0 | 26 | 19 | 12 | 9 | 8 | 7 | 5 | 4 | 3 | 2 |
| 37.0 | 18 | 14 | 10 | 8 | 7 | 5 | 4 | 2 | 2 | 2 |
| 39.0 | 12 | 10 | 8 | 7 | 5 | 4 | 2 | 2 | 1 | 1 |
| 41.0 | 9 | 8 | 6 | 5 | 4 | 2 | 2 | 1 | 1 | 1 |
| 43.0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 1 | 0 |
| 45.0 | 5 | 4 | 4 | 3 | 1 | 1 | 1 | 1 | 0 | 0 |
| 50.0 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 55.0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | |
|-----------------|-------------------|------------|------------|------------|------------|------------|------------|
| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
| 0.0 | 189 | 189 | 189 | 189 | 189 | 189 | 189 |
| 2.5 | 152 | 150 | 150 | 149 | 148 | 148 | 148 |
| 5.0 | 114 | 112 | 110 | 108 | 107 | 107 | 107 |
| 7.5 | 84 | 81 | 79 | 77 | 76 | 75 | 75 |
| 10.0 | 60 | 57 | 54 | 52 | 51 | 50 | 50 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L081910636.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|------|----|----|----|----|----|----|----|
| 12.5 | 41 | 39 | 36 | 35 | 34 | 33 | 33 |
| 15.0 | 28 | 26 | 25 | 24 | 23 | 23 | 23 |
| 17.0 | 22 | 21 | 20 | 19 | 19 | 19 | 19 |
| 19.0 | 18 | 17 | 16 | 16 | 16 | 15 | 15 |
| 21.0 | 15 | 14 | 14 | 13 | 13 | 13 | 13 |
| 23.0 | 12 | 12 | 11 | 11 | 11 | 10 | 10 |
| 25.0 | 10 | 10 | 9 | 8 | 8 | 8 | 8 |
| 27.0 | 8 | 7 | 7 | 6 | 6 | 5 | 5 |
| 29.0 | 6 | 5 | 4 | 4 | 4 | 3 | 3 |
| 31.0 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |
| 33.0 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 35.0 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| 37.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 41.0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L081910636.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 120.01 | N.A. | 14.30 |
| 0-30 | 382.00 | N.A. | 45.50 |
| 0-40 | 670.28 | N.A. | 79.80 |
| 0-60 | 836.80 | N.A. | 99.60 |
| 0-80 | 840.39 | N.A. | 100.00 |
| 0-90 | 840.38 | N.A. | 100.00 |
| 10-90 | 819.08 | N.A. | 97.50 |
| 20-40 | 550.27 | N.A. | 65.50 |
| 20-50 | 693.62 | N.A. | 82.50 |
| 40-70 | 169.88 | N.A. | 20.20 |
| 60-80 | 3.58 | N.A. | 0.40 |
| 70-80 | 0.23 | N.A. | 0.00 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 840.38 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 21.30 |
| 10-20 | 98.71 |
| 20-30 | 261.99 |
| 30-40 | 288.28 |
| 40-50 | 143.35 |
| 50-60 | 23.17 |
| 60-70 | 3.36 |
| 70-80 | 0.23 |
| 80-90 | 0.00 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

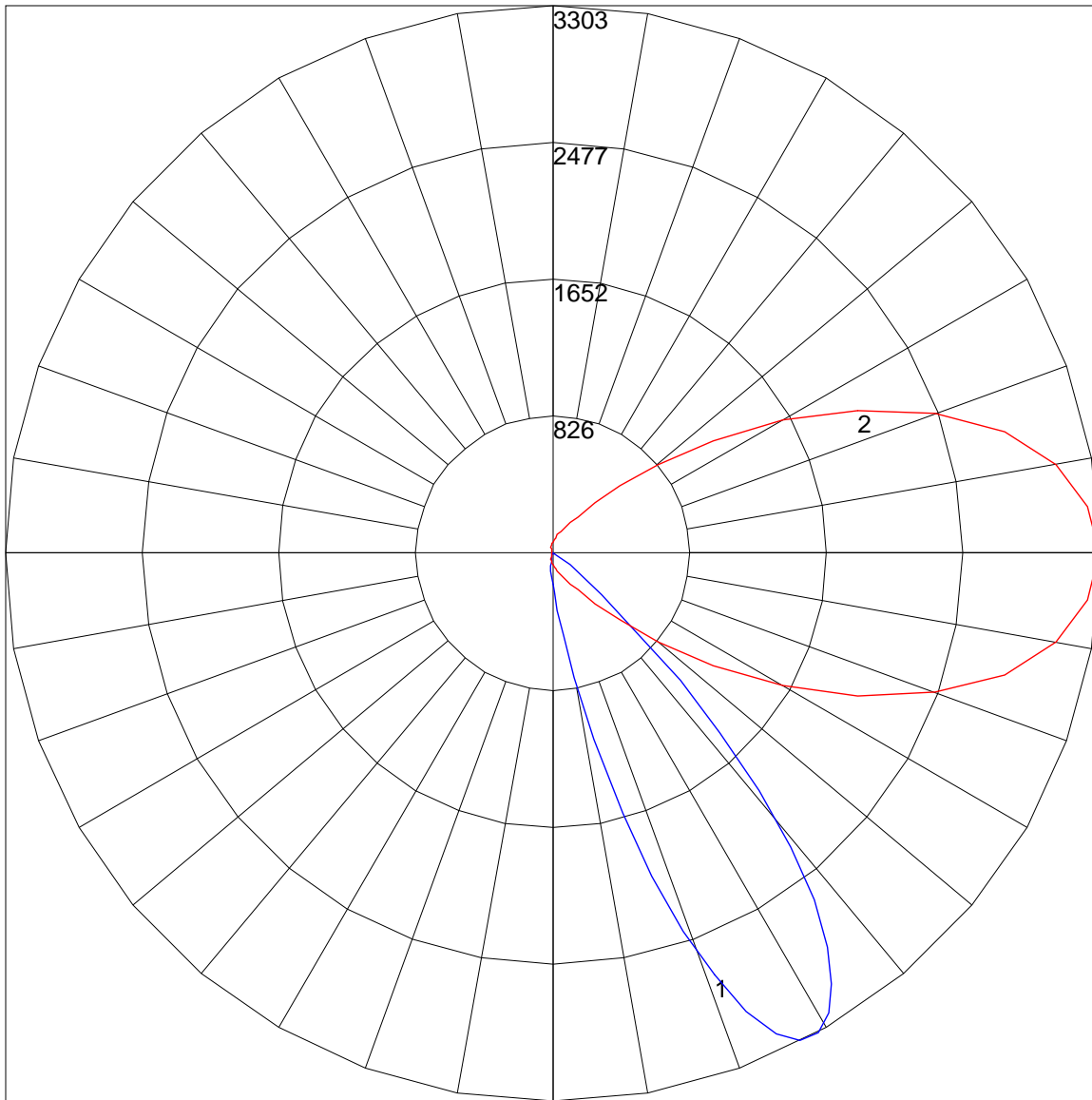
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L081910636.IES

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 | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 83 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 77 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 59 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 42 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

POLAR GRAPH



Maximum Candela = 3303 Located At Horizontal Angle = 0, Vertical Angle = 29
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (29) (Through Max. Cd.)