



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-SCL-LED-34L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 2,911

[TESTLAB] TUV SUD America

[TESTDATE] 5/10/2016 9:49:42 AM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[LUMCAT] TEL22-SCL-LED-34L-45

CHARACTERISTICS

| | |
|---|------------------------------|
| IES Classification | N.A. |
| Longitudinal Classification | N.A. |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 33336 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 111 |
| Total Luminaire Watts | 301.12 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 19062 |
| Maximum Candela Angle | 140H 60V |
| Maximum Candela (<90 Degrees Vertical) | 19062 |
| Maximum Candela Angle (<90 Degrees Vertical) | 140H 60V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 3248 (9.7% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : TEL22-SCL-LED-34L-45.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 2207.0 | N.A. | 6.6 |
| FM - Front-Medium (30-60) | 8459.7 | N.A. | 25.4 |
| FH - Front-High (60-80) | 4866.1 | N.A. | 14.6 |
| FVH - Front-Very High (80-90) | 135.6 | N.A. | 0.4 |
| BL - Back-Low (0-30) | 2275.1 | N.A. | 6.8 |
| BM - Back-Medium (30-60) | 9409.4 | N.A. | 28.2 |
| BH - Back-High (60-80) | 5786.5 | N.A. | 17.4 |
| BVH - Back-Very High (80-90) | 196.5 | N.A. | 0.6 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 33335.9 | N.A. | 100.0 |
| BUG Rating | B5-U0-G5 | | |

IES ROAD REPORT
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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
| 0 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 |
| 5 | 4550 | 4649 | 4778 | 4908 | 5026 | 5141 | 5221 | 5276 | 5306 | 5319 |
| 10 | 4690 | 4937 | 5255 | 5522 | 5733 | 5940 | 6125 | 6255 | 6336 | 6355 |
| 15 | 4910 | 5372 | 5834 | 6217 | 6561 | 6844 | 7083 | 7251 | 7367 | 7378 |
| 20 | 5035 | 5647 | 6223 | 6829 | 7335 | 7720 | 7992 | 8149 | 8266 | 8274 |
| 25 | 5142 | 5847 | 6559 | 7296 | 7918 | 8431 | 8631 | 8797 | 8903 | 8917 |
| 30 | 5201 | 6011 | 6811 | 7708 | 8436 | 8805 | 9223 | 9452 | 9550 | 9590 |
| 35 | 5994 | 7084 | 8009 | 8551 | 8935 | 9320 | 9617 | 10024 | 10213 | 10313 |
| 40 | 7095 | 8437 | 9504 | 10111 | 10100 | 9848 | 10261 | 10641 | 11012 | 11130 |
| 45 | 7977 | 9698 | 11039 | 12036 | 11849 | 11024 | 11209 | 11509 | 11904 | 12041 |
| 50 | 7327 | 9274 | 11425 | 13378 | 13809 | 12740 | 11833 | 12561 | 13047 | 13151 |
| 55 | 6517 | 8754 | 11513 | 14013 | 15283 | 14440 | 13218 | 14033 | 14724 | 14755 |
| 60 | 5425 | 8234 | 11746 | 15183 | 15837 | 15818 | 14616 | 14403 | 15907 | 15633 |
| 65 | 4055 | 6871 | 10676 | 14958 | 15905 | 15696 | 14562 | 13556 | 13713 | 12977 |
| 70 | 2742 | 5119 | 8285 | 11295 | 12437 | 12549 | 8927 | 7602 | 6494 | 5320 |
| 75 | 1324 | 2994 | 5232 | 6464 | 7314 | 5802 | 4170 | 3429 | 2169 | 1823 |
| 80 | 304 | 711 | 1913 | 2365 | 2387 | 2032 | 1625 | 1325 | 684 | 501 |
| 85 | 40 | 53 | 95 | 219 | 247 | 205 | 193 | 176 | 106 | 105 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | <u>100</u> | <u>110</u> | <u>120</u> | <u>130</u> | <u>140</u> | <u>150</u> | <u>160</u> | <u>170</u> | <u>180</u> | <u>190</u> |
| 0 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 |
| 5 | 5310 | 5275 | 5232 | 5148 | 5060 | 4947 | 4819 | 4688 | 4595 | 4342 |
| 10 | 6324 | 6253 | 6143 | 5993 | 5809 | 5622 | 5353 | 5051 | 4839 | 4441 |
| 15 | 7335 | 7251 | 7118 | 6960 | 6707 | 6412 | 6023 | 5532 | 5130 | 4605 |
| 20 | 8227 | 8121 | 8024 | 7839 | 7559 | 7124 | 6591 | 5995 | 5396 | 4750 |
| 25 | 8858 | 8805 | 8686 | 8533 | 8240 | 7714 | 7062 | 6331 | 5646 | 4889 |
| 30 | 9525 | 9486 | 9334 | 9100 | 8772 | 8394 | 7709 | 6862 | 6181 | 5091 |
| 35 | 10215 | 10121 | 9904 | 9774 | 9894 | 9662 | 9069 | 8220 | 7416 | 5688 |
| 40 | 11051 | 10849 | 10672 | 10932 | 11437 | 11570 | 10976 | 9817 | 8609 | 6239 |
| 45 | 11938 | 11819 | 11916 | 12533 | 13567 | 13779 | 12538 | 11085 | 8953 | 6305 |
| 50 | 13098 | 12990 | 13319 | 14617 | 15783 | 15205 | 13257 | 11017 | 8383 | 5650 |
| 55 | 14837 | 14544 | 15001 | 16521 | 17694 | 16774 | 13913 | 10627 | 7448 | 4914 |

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 60 | 15876 | 15889 | 16649 | 18408 | 19062 | 18212 | 14368 | 10172 | 6296 | 4222 |
| 65 | 13638 | 14827 | 16524 | 18854 | 19047 | 18034 | 13689 | 8979 | 4708 | 3145 |
| 70 | 6336 | 8114 | 10697 | 14912 | 15537 | 13953 | 10510 | 6804 | 3018 | 1841 |
| 75 | 2198 | 3864 | 5142 | 7454 | 8987 | 8240 | 6879 | 4022 | 1405 | 1058 |
| 80 | 656 | 1517 | 2137 | 2752 | 3186 | 3248 | 2886 | 1566 | 512 | 431 |
| 85 | 118 | 187 | 252 | 267 | 374 | 400 | 302 | 213 | 46 | 42 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles
Angles

| | <u>200</u> | <u>210</u> | <u>220</u> | <u>230</u> | <u>240</u> | <u>250</u> | <u>260</u> | <u>270</u> | <u>280</u> | <u>290</u> |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 |
| 5 | 4168 | 3996 | 3838 | 3705 | 3602 | 3528 | 3481 | 3467 | 3487 | 3534 |
| 10 | 4089 | 3779 | 3480 | 3177 | 2980 | 2891 | 2849 | 2837 | 2855 | 2900 |
| 15 | 4152 | 3657 | 3292 | 3096 | 2934 | 2814 | 2752 | 2738 | 2760 | 2818 |
| 20 | 4177 | 3673 | 3428 | 3199 | 2988 | 2804 | 2702 | 2684 | 2715 | 2810 |
| 25 | 4130 | 3778 | 3524 | 3274 | 3027 | 2805 | 2663 | 2631 | 2675 | 2802 |
| 30 | 4158 | 3823 | 3582 | 3350 | 3094 | 2837 | 2640 | 2578 | 2639 | 2806 |
| 35 | 4368 | 3916 | 3826 | 3597 | 3273 | 2926 | 2667 | 2590 | 2664 | 2861 |
| 40 | 4545 | 4314 | 4428 | 4026 | 3376 | 2946 | 2713 | 2651 | 2720 | 2871 |
| 45 | 4510 | 4595 | 4620 | 4046 | 3380 | 2915 | 2704 | 2665 | 2729 | 2832 |
| 50 | 4354 | 4491 | 4248 | 3762 | 3309 | 2897 | 2733 | 2690 | 2716 | 2777 |
| 55 | 4114 | 4141 | 3833 | 3502 | 3213 | 2926 | 2781 | 2723 | 2748 | 2635 |
| 60 | 3598 | 3446 | 3220 | 3113 | 2939 | 2689 | 2506 | 2459 | 2516 | 2461 |
| 65 | 2734 | 2586 | 2534 | 2457 | 2281 | 2146 | 1940 | 1813 | 1929 | 1967 |
| 70 | 1757 | 1687 | 1595 | 1525 | 1441 | 1471 | 1301 | 1185 | 1258 | 1281 |
| 75 | 1022 | 974 | 857 | 784 | 790 | 765 | 650 | 547 | 602 | 626 |
| 80 | 402 | 361 | 305 | 271 | 255 | 233 | 194 | 172 | 170 | 185 |
| 85 | 30 | 26 | 23 | 17 | 13 | 10 | 8 | 8 | 7 | 9 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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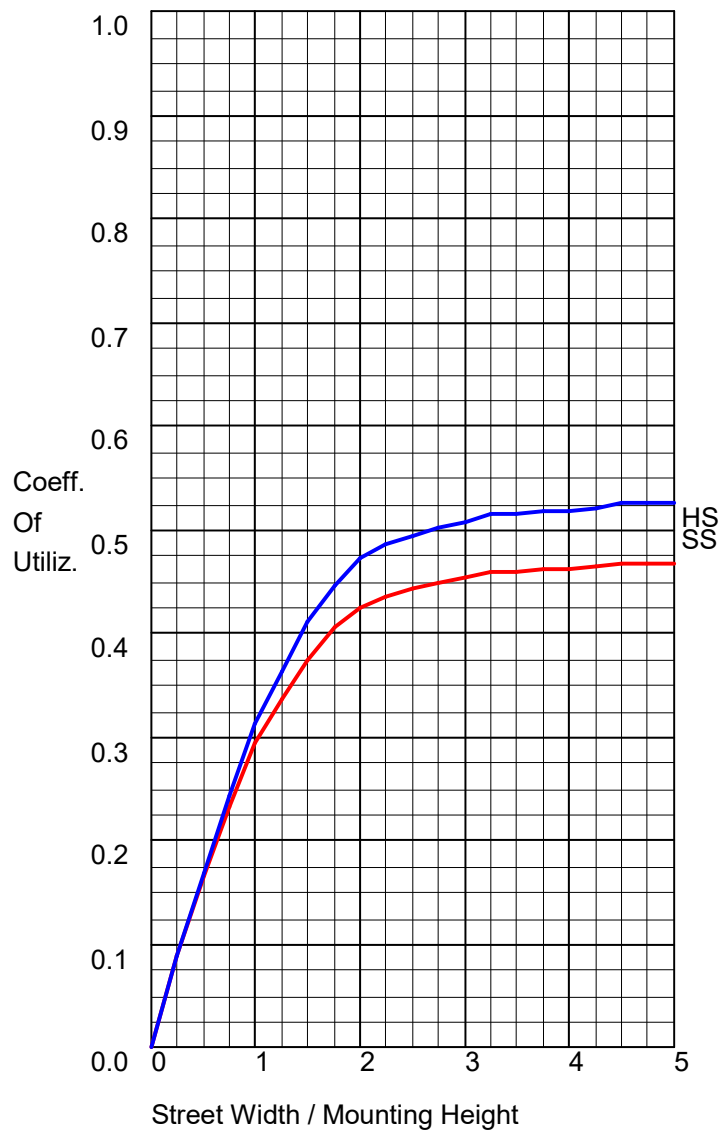
CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles
Angles

| | <u>300</u> | <u>310</u> | <u>320</u> | <u>330</u> | <u>340</u> | <u>350</u> | <u>360</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|
| 0 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 | 4404 |
| 5 | 3618 | 3722 | 3861 | 4026 | 4199 | 4397 | 4550 |
| 10 | 2991 | 3176 | 3460 | 3748 | 4065 | 4419 | 4690 |
| 15 | 2920 | 3059 | 3233 | 3583 | 4030 | 4485 | 4910 |
| 20 | 2965 | 3129 | 3305 | 3470 | 3931 | 4483 | 5035 |
| 25 | 2975 | 3131 | 3293 | 3476 | 3775 | 4474 | 5142 |
| 30 | 2970 | 3117 | 3283 | 3419 | 3670 | 4469 | 5201 |
| 35 | 3070 | 3242 | 3363 | 3420 | 3788 | 4869 | 5994 |
| 40 | 3138 | 3545 | 3791 | 3688 | 3925 | 5347 | 7095 |
| 45 | 3106 | 3680 | 4089 | 3947 | 3864 | 5394 | 7977 |
| 50 | 2982 | 3300 | 3681 | 3672 | 3528 | 4751 | 7327 |
| 55 | 2826 | 3010 | 3086 | 3282 | 3228 | 4019 | 6517 |
| 60 | 2547 | 2515 | 2550 | 2706 | 2720 | 3194 | 5425 |
| 65 | 1883 | 1958 | 1902 | 1872 | 1991 | 2358 | 4055 |
| 70 | 1142 | 1131 | 1137 | 1174 | 1220 | 1317 | 2742 |
| 75 | 598 | 554 | 567 | 622 | 619 | 571 | 1324 |
| 80 | 181 | 168 | 171 | 185 | 161 | 122 | 304 |
| 85 | 9 | 10 | 11 | 10 | 9 | 7 | 40 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

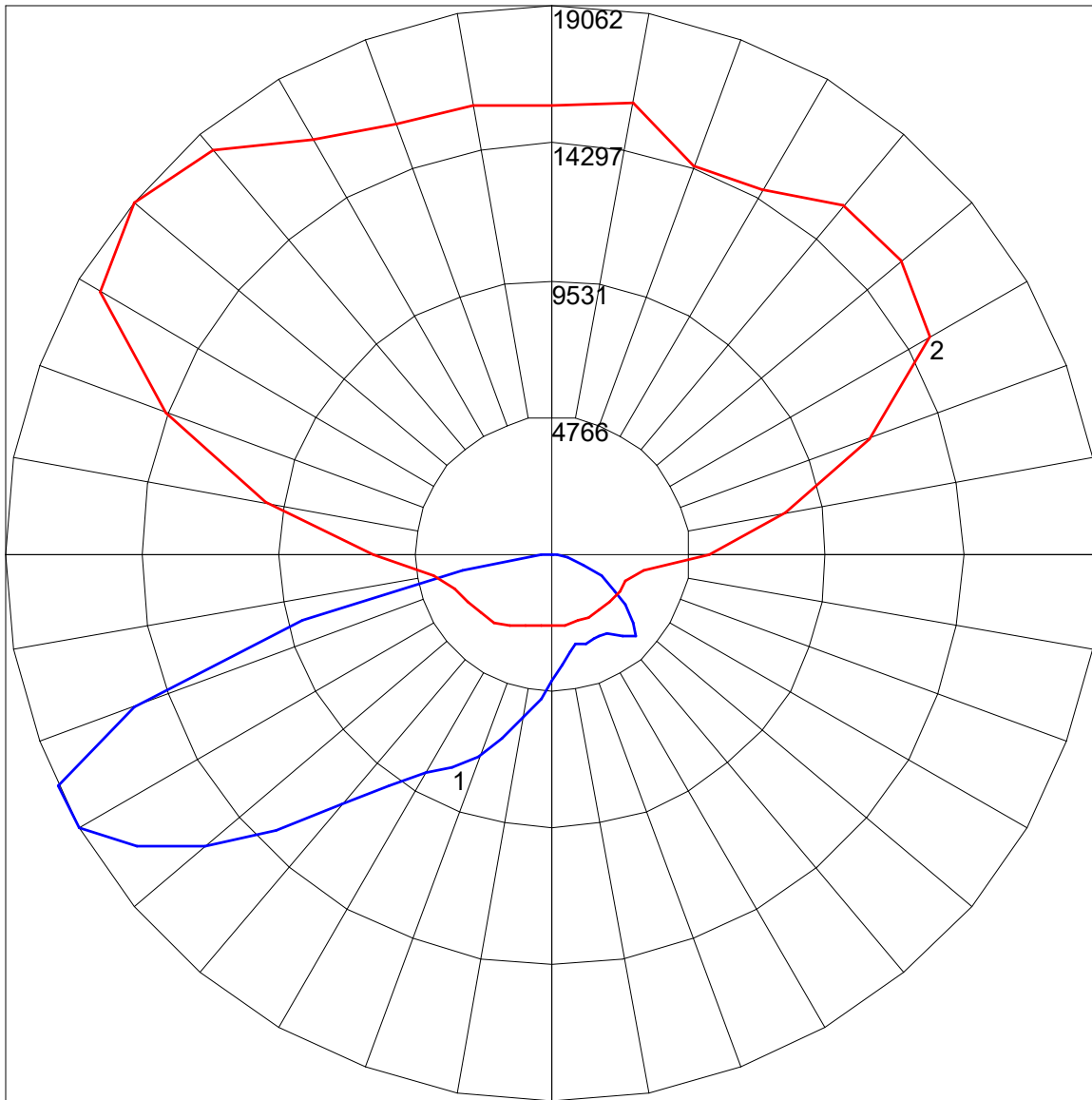
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

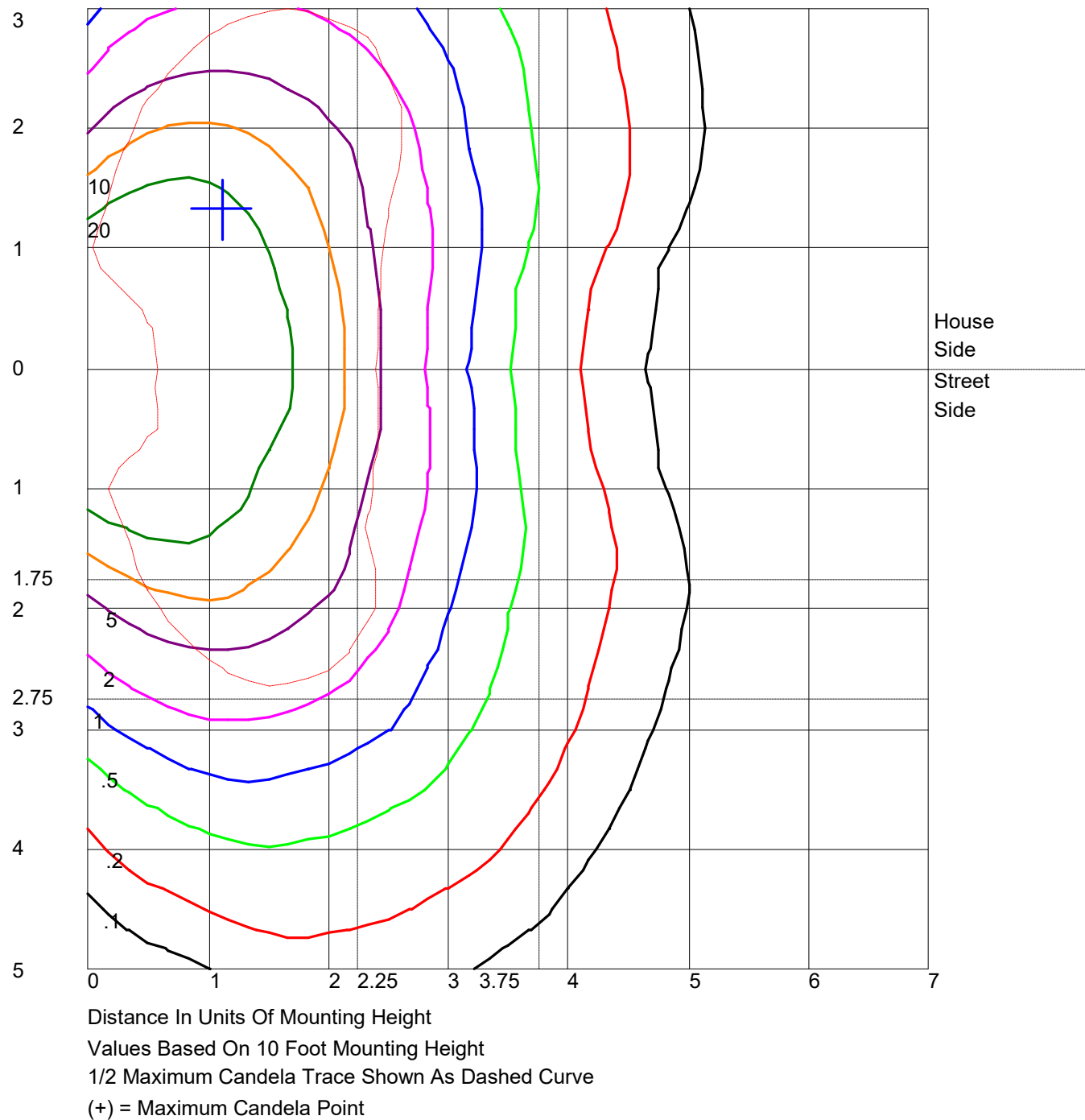
| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 15668.4 | 47.0 |
| Downward House Side | 17667.5 | 53.0 |
| Downward Total | 33335.9 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 33335.9 | 100.0 |

POLAR GRAPH

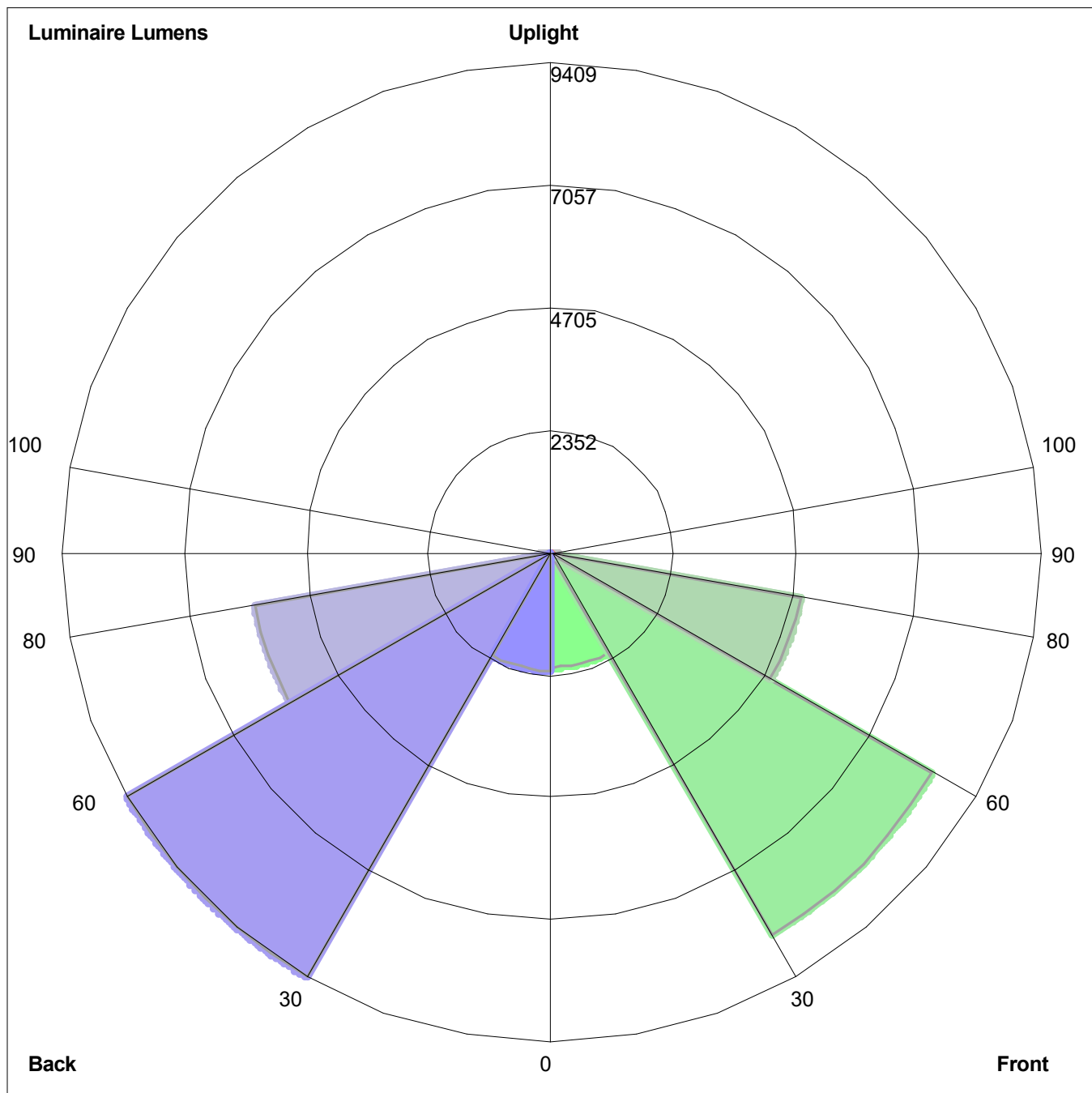


Maximum Candela = 19062 Located At Horizontal Angle = 140, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 2207.0, Medium=8459.7, High=4866.1, Very High=135.6
Back: Low=2275.1, Medium=9409.4, High=5786.5, Very High=196.5
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5