



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HIGH-8-835-U10-SM-N.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 14298494.07_modified to 8ft length
 [TESTLAB] UL LLC
 [ISSUEDATE] 4/29/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] HIGH-8-835-U10-SM-[Blank]-N
 [LUMINAIRE] HIGH Line LED Fixtures, 8' Length, 3500K, Narrow Optic Reflector, No Lens
 [LAMP] White LED array
 [BALLAST] Four (4) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB
 [OTHER] -
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 34037 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 159 |
| Total Luminaire Watts | 214.42 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.18 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 7.67 ft |
| Luminous Width (90-270) | 0.21 ft |
| Luminous Height | 0.08 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 88091 | 57989 | 60565 |
| 55 | 85732 | 57231 | 34633 |
| 65 | 80008 | 24171 | 3287 |
| 75 | 65519 | 2231 | 1690 |
| 85 | 33356 | 933 | 381 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 13390.0 | 13390.0 | 13390.0 | 13390.0 | 13390.0 |
| 0.5 | 13328.0 | 13332.0 | 13380.0 | 13424.0 | 13532.0 |
| 1.0 | 13332.0 | 13334.0 | 13394.0 | 13446.0 | 13558.0 |
| 1.5 | 13326.0 | 13344.0 | 13414.0 | 13480.0 | 13600.0 |
| 2.0 | 13324.0 | 13348.0 | 13444.0 | 13524.0 | 13644.0 |
| 2.5 | 13322.0 | 13354.0 | 13474.0 | 13562.0 | 13680.0 |
| 3.0 | 13320.0 | 13362.0 | 13508.0 | 13606.0 | 13738.0 |
| 3.5 | 13312.0 | 13374.0 | 13542.0 | 13674.0 | 13842.0 |
| 4.0 | 13300.0 | 13388.0 | 13582.0 | 13782.0 | 13994.0 |
| 4.5 | 13292.0 | 13400.0 | 13632.0 | 13932.0 | 14196.0 |
| 5.0 | 13284.0 | 13416.0 | 13704.0 | 14114.0 | 14414.0 |
| 5.5 | 13274.0 | 13428.0 | 13798.0 | 14314.0 | 14660.0 |
| 6.0 | 13266.0 | 13438.0 | 13910.0 | 14546.0 | 14932.0 |
| 6.5 | 13252.0 | 13454.0 | 14046.0 | 14786.0 | 15228.0 |
| 7.0 | 13238.0 | 13466.0 | 14194.0 | 15050.0 | 15542.0 |
| 7.5 | 13228.0 | 13484.0 | 14358.0 | 15338.0 | 15876.0 |
| 8.0 | 13212.0 | 13502.0 | 14534.0 | 15648.0 | 16198.0 |
| 8.5 | 13196.0 | 13524.0 | 14722.0 | 15958.0 | 16494.0 |
| 9.0 | 13182.0 | 13552.0 | 14920.0 | 16250.0 | 16800.0 |
| 9.5 | 13166.0 | 13588.0 | 15128.0 | 16532.0 | 17116.0 |
| 10.0 | 13150.0 | 13626.0 | 15350.0 | 16830.0 | 17406.0 |
| 10.5 | 13130.0 | 13672.0 | 15586.0 | 17116.0 | 17654.0 |
| 11.0 | 13114.0 | 13722.0 | 15820.0 | 17380.0 | 17816.0 |
| 11.5 | 13092.0 | 13778.0 | 16052.0 | 17586.0 | 17898.0 |
| 12.0 | 13074.0 | 13838.0 | 16276.0 | 17716.0 | 17902.0 |
| 12.5 | 13048.0 | 13904.0 | 16492.0 | 17780.0 | 17820.0 |
| 13.0 | 13024.0 | 13976.0 | 16718.0 | 17770.0 | 17692.0 |
| 13.5 | 13000.0 | 14048.0 | 16932.0 | 17694.0 | 17496.0 |
| 14.0 | 12976.0 | 14126.0 | 17128.0 | 17566.0 | 17226.0 |
| 14.5 | 12948.0 | 14202.0 | 17300.0 | 17384.0 | 16894.0 |
| 15.0 | 12922.0 | 14284.0 | 17434.0 | 17146.0 | 16530.0 |
| 15.5 | 12888.0 | 14368.0 | 17526.0 | 16846.0 | 16128.0 |
| 16.0 | 12858.0 | 14454.0 | 17574.0 | 16496.0 | 15704.0 |
| 16.5 | 12830.0 | 14548.0 | 17574.0 | 16124.0 | 15274.0 |
| 17.0 | 12802.0 | 14642.0 | 17524.0 | 15742.0 | 14822.0 |
| 17.5 | 12770.0 | 14740.0 | 17444.0 | 15336.0 | 14376.0 |
| 18.0 | 12742.0 | 14846.0 | 17318.0 | 14918.0 | 13952.0 |
| 18.5 | 12702.0 | 14956.0 | 17164.0 | 14492.0 | 13516.0 |
| 19.0 | 12668.0 | 15064.0 | 16972.0 | 14080.0 | 13124.0 |
| 19.5 | 12632.0 | 15170.0 | 16736.0 | 13668.0 | 12742.0 |
| 20.0 | 12600.0 | 15274.0 | 16472.0 | 13270.0 | 12398.0 |
| 20.5 | 12562.0 | 15380.0 | 16176.0 | 12900.0 | 12084.0 |
| 21.0 | 12516.0 | 15478.0 | 15854.0 | 12544.0 | 11774.0 |
| 21.5 | 12476.0 | 15578.0 | 15520.0 | 12214.0 | 11490.0 |
| 22.0 | 12446.0 | 15678.0 | 15182.0 | 11910.0 | 11218.0 |
| 22.5 | 12402.0 | 15772.0 | 14834.0 | 11618.0 | 10962.0 |
| 23.0 | 12352.0 | 15866.0 | 14474.0 | 11340.0 | 10738.0 |
| 23.5 | 12306.0 | 15948.0 | 14110.0 | 11078.0 | 10524.0 |
| 24.0 | 12246.0 | 16020.0 | 13760.0 | 10830.0 | 10334.0 |
| 24.5 | 12192.0 | 16084.0 | 13406.0 | 10602.0 | 10164.0 |
| 25.0 | 12140.0 | 16134.0 | 13048.0 | 10392.0 | 10016.0 |
| 25.5 | 12082.0 | 16176.0 | 12718.0 | 10202.0 | 9894.0 |
| 26.0 | 12034.0 | 16204.0 | 12402.0 | 10024.0 | 9788.0 |
| 26.5 | 11976.0 | 16214.0 | 12096.0 | 9864.0 | 9714.0 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 27.0 | 11922.0 | 16222.0 | 11806.0 | 9728.0 | 9680.0 |
| 27.5 | 11872.0 | 16204.0 | 11530.0 | 9610.0 | 9696.0 |
| 28.0 | 11820.0 | 16174.0 | 11272.0 | 9516.0 | 9772.0 |
| 28.5 | 11762.0 | 16124.0 | 11022.0 | 9446.0 | 9880.0 |
| 29.0 | 11710.0 | 16056.0 | 10780.0 | 9414.0 | 10016.0 |
| 29.5 | 11652.0 | 15974.0 | 10542.0 | 9430.0 | 10170.0 |
| 30.0 | 11596.0 | 15874.0 | 10322.0 | 9496.0 | 10334.0 |
| 30.5 | 11536.0 | 15764.0 | 10112.0 | 9600.0 | 10464.0 |
| 31.0 | 11480.0 | 15636.0 | 9912.0 | 9726.0 | 10536.0 |
| 31.5 | 11418.0 | 15490.0 | 9724.0 | 9858.0 | 10544.0 |
| 32.0 | 11360.0 | 15330.0 | 9552.0 | 9998.0 | 10474.0 |
| 32.5 | 11296.0 | 15160.0 | 9388.0 | 10124.0 | 10302.0 |
| 33.0 | 11228.0 | 14966.0 | 9238.0 | 10198.0 | 10036.0 |
| 33.5 | 11156.0 | 14758.0 | 9098.0 | 10214.0 | 9774.0 |
| 34.0 | 11076.0 | 14534.0 | 8974.0 | 10168.0 | 9540.0 |
| 34.5 | 11004.0 | 14294.0 | 8864.0 | 10038.0 | 9346.0 |
| 35.0 | 10932.0 | 14040.0 | 8770.0 | 9802.0 | 9244.0 |
| 35.5 | 10868.0 | 13772.0 | 8698.0 | 9550.0 | 9256.0 |
| 36.0 | 10798.0 | 13502.0 | 8658.0 | 9322.0 | 9406.0 |
| 36.5 | 10726.0 | 13226.0 | 8650.0 | 9112.0 | 9730.0 |
| 37.0 | 10662.0 | 12946.0 | 8682.0 | 8966.0 | 10102.0 |
| 37.5 | 10588.0 | 12658.0 | 8746.0 | 8920.0 | 10468.0 |
| 38.0 | 10516.0 | 12366.0 | 8824.0 | 8990.0 | 10778.0 |
| 38.5 | 10442.0 | 12072.0 | 8918.0 | 9206.0 | 10932.0 |
| 39.0 | 10366.0 | 11786.0 | 9018.0 | 9536.0 | 10896.0 |
| 39.5 | 10294.0 | 11496.0 | 9108.0 | 9892.0 | 10712.0 |
| 40.0 | 10210.0 | 11204.0 | 9170.0 | 10216.0 | 10454.0 |
| 40.5 | 10126.0 | 10912.0 | 9200.0 | 10454.0 | 10082.0 |
| 41.0 | 10038.0 | 10632.0 | 9180.0 | 10532.0 | 9672.0 |
| 41.5 | 9950.0 | 10362.0 | 9112.0 | 10424.0 | 9334.0 |
| 42.0 | 9866.0 | 10102.0 | 8966.0 | 10210.0 | 9016.0 |
| 42.5 | 9774.0 | 9846.0 | 8738.0 | 9918.0 | 8782.0 |
| 43.0 | 9684.0 | 9602.0 | 8504.0 | 9518.0 | 8660.0 |
| 43.5 | 9598.0 | 9364.0 | 8284.0 | 9126.0 | 8620.0 |
| 44.0 | 9508.0 | 9130.0 | 8072.0 | 8804.0 | 8672.0 |
| 44.5 | 9422.0 | 8908.0 | 7908.0 | 8508.0 | 8790.0 |
| 45.0 | 9336.0 | 8692.0 | 7842.0 | 8318.0 | 8884.0 |
| 45.5 | 9250.0 | 8480.0 | 7860.0 | 8228.0 | 8914.0 |
| 46.0 | 9162.0 | 8274.0 | 7970.0 | 8216.0 | 8898.0 |
| 46.5 | 9070.0 | 8070.0 | 8206.0 | 8274.0 | 8828.0 |
| 47.0 | 8972.0 | 7884.0 | 8484.0 | 8382.0 | 8534.0 |
| 47.5 | 8876.0 | 7692.0 | 8754.0 | 8434.0 | 8054.0 |
| 48.0 | 8780.0 | 7514.0 | 8948.0 | 8442.0 | 7476.0 |
| 48.5 | 8688.0 | 7342.0 | 9018.0 | 8416.0 | 6972.0 |
| 49.0 | 8590.0 | 7192.0 | 8948.0 | 8282.0 | 6558.0 |
| 49.5 | 8494.0 | 7022.0 | 8754.0 | 7912.0 | 6242.0 |
| 50.0 | 8398.0 | 6886.0 | 8486.0 | 7398.0 | 6074.0 |
| 50.5 | 8302.0 | 6752.0 | 8134.0 | 6864.0 | 6014.0 |
| 51.0 | 8204.0 | 6618.0 | 7762.0 | 6406.0 | 5970.0 |
| 51.5 | 8108.0 | 6490.0 | 7432.0 | 6028.0 | 5912.0 |
| 52.0 | 8008.0 | 6376.0 | 7160.0 | 5806.0 | 5942.0 |
| 52.5 | 7904.0 | 6266.0 | 6944.0 | 5696.0 | 6004.0 |
| 53.0 | 7806.0 | 6182.0 | 6836.0 | 5646.0 | 5952.0 |
| 53.5 | 7710.0 | 6120.0 | 6790.0 | 5586.0 | 5704.0 |
| 54.0 | 7608.0 | 6086.0 | 6800.0 | 5578.0 | 5416.0 |
| 54.5 | 7502.0 | 6088.0 | 6862.0 | 5640.0 | 5058.0 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|--------|--------|--------|--------|--------|
| 55.0 | 7404.0 | 6100.0 | 6882.0 | 5632.0 | 4624.0 |
| 55.5 | 7300.0 | 6104.0 | 6872.0 | 5476.0 | 4150.0 |
| 56.0 | 7194.0 | 6130.0 | 6802.0 | 5202.0 | 3832.0 |
| 56.5 | 7098.0 | 6156.0 | 6578.0 | 4866.0 | 3560.0 |
| 57.0 | 6982.0 | 6158.0 | 6180.0 | 4462.0 | 3222.0 |
| 57.5 | 6880.0 | 6124.0 | 5676.0 | 3990.0 | 2812.0 |
| 58.0 | 6772.0 | 6054.0 | 5200.0 | 3624.0 | 2400.0 |
| 58.5 | 6664.0 | 5942.0 | 4812.0 | 3352.0 | 1967.8 |
| 59.0 | 6556.0 | 5766.0 | 4574.0 | 3062.0 | 1646.4 |
| 59.5 | 6428.0 | 5554.0 | 4450.0 | 2660.0 | 1324.2 |
| 60.0 | 6322.0 | 5354.0 | 4392.0 | 2272.0 | 1039.8 |
| 60.5 | 6212.0 | 5148.0 | 4344.0 | 1845.4 | 836.4 |
| 61.0 | 6094.0 | 4966.0 | 4352.0 | 1507.0 | 698.6 |
| 61.5 | 5974.0 | 4864.0 | 4374.0 | 1198.4 | 604.8 |
| 62.0 | 5848.0 | 4834.0 | 4276.0 | 932.2 | 544.8 |
| 62.5 | 5744.0 | 4902.0 | 4030.0 | 740.4 | 498.0 |
| 63.0 | 5618.0 | 5042.0 | 3756.0 | 604.8 | 458.8 |
| 63.5 | 5502.0 | 5174.0 | 3416.0 | 519.2 | 430.4 |
| 64.0 | 5378.0 | 5222.0 | 3016.0 | 463.8 | 411.0 |
| 64.5 | 5256.0 | 5176.0 | 2710.0 | 422.0 | 395.0 |
| 65.0 | 5130.0 | 5022.0 | 2456.0 | 390.2 | 382.2 |
| 65.5 | 4998.0 | 4782.0 | 2130.0 | 366.8 | 370.6 |
| 66.0 | 4874.0 | 4480.0 | 1771.4 | 350.6 | 359.0 |
| 66.5 | 4760.0 | 4196.0 | 1398.0 | 336.8 | 348.0 |
| 67.0 | 4634.0 | 3962.0 | 1091.8 | 325.6 | 337.2 |
| 67.5 | 4500.0 | 3792.0 | 838.8 | 315.4 | 327.0 |
| 68.0 | 4378.0 | 3682.0 | 648.6 | 306.2 | 316.0 |
| 68.5 | 4256.0 | 3618.0 | 494.8 | 296.6 | 304.6 |
| 69.0 | 4128.0 | 3606.0 | 395.4 | 287.0 | 291.6 |
| 69.5 | 4000.0 | 3576.0 | 338.2 | 277.2 | 276.8 |
| 70.0 | 3878.0 | 3414.0 | 304.8 | 268.0 | 261.8 |
| 70.5 | 3748.0 | 3068.0 | 277.4 | 257.8 | 247.4 |
| 71.0 | 3628.0 | 2672.0 | 256.4 | 246.6 | 234.2 |
| 71.5 | 3494.0 | 2338.0 | 242.4 | 235.0 | 223.4 |
| 72.0 | 3372.0 | 2168.0 | 230.2 | 223.8 | 214.2 |
| 72.5 | 3246.0 | 2102.0 | 221.0 | 213.8 | 206.4 |
| 73.0 | 3122.0 | 2094.0 | 212.4 | 205.2 | 198.6 |
| 73.5 | 2996.0 | 2084.0 | 204.0 | 197.6 | 190.4 |
| 74.0 | 2870.0 | 1875.6 | 195.2 | 190.6 | 181.2 |
| 74.5 | 2744.0 | 1629.4 | 186.4 | 183.2 | 171.2 |
| 75.0 | 2616.0 | 1422.0 | 178.2 | 174.8 | 161.4 |
| 75.5 | 2498.0 | 1271.4 | 170.2 | 165.4 | 151.8 |
| 76.0 | 2376.0 | 1014.2 | 162.6 | 155.8 | 143.2 |
| 76.5 | 2258.0 | 744.2 | 155.2 | 146.4 | 133.4 |
| 77.0 | 2138.0 | 523.0 | 148.6 | 137.8 | 121.4 |
| 77.5 | 2018.0 | 377.4 | 142.8 | 129.0 | 107.2 |
| 78.0 | 1896.0 | 286.0 | 136.6 | 117.8 | 95.6 |
| 78.5 | 1779.0 | 213.2 | 129.8 | 105.0 | 88.0 |
| 79.0 | 1661.2 | 167.4 | 123.4 | 94.6 | 83.0 |
| 79.5 | 1546.4 | 145.0 | 116.8 | 88.4 | 78.8 |
| 80.0 | 1433.4 | 131.4 | 110.2 | 84.0 | 73.4 |
| 80.5 | 1323.0 | 123.2 | 102.2 | 79.6 | 64.2 |
| 81.0 | 1215.8 | 116.2 | 92.6 | 73.2 | 51.2 |
| 81.5 | 1113.4 | 109.6 | 84.6 | 63.2 | 43.0 |
| 82.0 | 1013.6 | 103.4 | 79.4 | 53.6 | 40.0 |
| 82.5 | 918.0 | 97.6 | 75.6 | 49.6 | 38.2 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|-------|------|------|------|------|
| 83.0 | 824.2 | 92.4 | 70.6 | 46.8 | 36.2 |
| 83.5 | 734.0 | 87.6 | 62.8 | 44.8 | 34.0 |
| 84.0 | 646.4 | 82.4 | 57.6 | 42.8 | 31.8 |
| 84.5 | 562.8 | 77.2 | 54.8 | 41.0 | 29.6 |
| 85.0 | 484.4 | 72.0 | 52.0 | 39.6 | 27.4 |
| 85.5 | 411.8 | 67.0 | 50.0 | 38.0 | 24.8 |
| 86.0 | 343.4 | 61.8 | 48.4 | 36.2 | 22.2 |
| 86.5 | 281.4 | 56.6 | 47.0 | 34.4 | 19.4 |
| 87.0 | 222.2 | 53.0 | 45.0 | 31.8 | 16.2 |
| 87.5 | 158.4 | 48.8 | 42.8 | 29.6 | 14.2 |
| 88.0 | 97.0 | 44.6 | 40.4 | 28.0 | 12.6 |
| 88.5 | 56.8 | 41.0 | 38.6 | 26.6 | 11.2 |
| 89.0 | 43.8 | 37.8 | 36.8 | 25.4 | 10.0 |
| 89.5 | 26.6 | 35.0 | 35.2 | 24.6 | 8.8 |
| 90.0 | 10.2 | 32.4 | 34.2 | 23.8 | 8.2 |
| 90.5 | 5.8 | 30.6 | 33.0 | 23.2 | 7.6 |
| 91.0 | 5.8 | 29.6 | 32.2 | 22.0 | 6.0 |
| 91.5 | 5.0 | 28.6 | 31.4 | 21.4 | 5.8 |
| 92.0 | 4.4 | 27.6 | 31.0 | 21.2 | 6.0 |
| 92.5 | 4.2 | 26.8 | 30.6 | 21.2 | 6.2 |
| 93.0 | 3.8 | 25.8 | 30.0 | 21.2 | 6.4 |
| 93.5 | 3.4 | 25.0 | 29.6 | 21.0 | 6.6 |
| 94.0 | 3.4 | 24.0 | 29.0 | 21.0 | 6.8 |
| 94.5 | 3.0 | 23.4 | 28.6 | 20.8 | 7.2 |
| 95.0 | 2.8 | 22.6 | 28.2 | 20.8 | 7.4 |
| 95.5 | 2.6 | 22.0 | 27.8 | 20.6 | 7.6 |
| 96.0 | 2.6 | 21.4 | 27.6 | 20.6 | 7.8 |
| 96.5 | 2.4 | 21.0 | 27.2 | 20.4 | 8.2 |
| 97.0 | 2.4 | 20.4 | 26.8 | 20.4 | 8.4 |
| 97.5 | 2.6 | 20.0 | 26.6 | 20.2 | 8.8 |
| 98.0 | 2.8 | 19.4 | 26.2 | 20.2 | 9.0 |
| 98.5 | 2.8 | 19.0 | 25.8 | 20.0 | 9.2 |
| 99.0 | 2.8 | 18.8 | 25.6 | 20.0 | 9.6 |
| 99.5 | 2.6 | 18.2 | 25.2 | 19.8 | 10.0 |
| 100.0 | 2.8 | 18.0 | 25.0 | 20.0 | 10.2 |
| 100.5 | 2.4 | 17.6 | 24.6 | 19.8 | 10.6 |
| 101.0 | 2.2 | 17.4 | 24.4 | 19.8 | 11.0 |
| 101.5 | 2.2 | 17.0 | 24.2 | 19.8 | 11.2 |
| 102.0 | 2.4 | 16.8 | 24.0 | 19.6 | 11.6 |
| 102.5 | 2.6 | 16.4 | 23.8 | 19.6 | 11.8 |
| 103.0 | 2.8 | 16.2 | 23.6 | 19.6 | 12.0 |
| 103.5 | 3.0 | 16.0 | 23.2 | 19.4 | 12.4 |
| 104.0 | 3.0 | 16.0 | 23.0 | 19.4 | 12.6 |
| 104.5 | 3.2 | 15.8 | 23.0 | 19.4 | 13.0 |
| 105.0 | 3.2 | 15.6 | 22.8 | 19.2 | 13.2 |
| 105.5 | 3.2 | 15.4 | 22.6 | 19.2 | 13.4 |
| 106.0 | 3.2 | 15.2 | 22.4 | 19.0 | 13.6 |
| 106.5 | 3.4 | 15.2 | 22.2 | 18.8 | 13.8 |
| 107.0 | 3.4 | 15.0 | 22.0 | 18.8 | 14.0 |
| 107.5 | 3.6 | 14.8 | 21.8 | 18.6 | 14.2 |
| 108.0 | 3.6 | 14.6 | 21.6 | 18.6 | 14.2 |
| 108.5 | 3.8 | 14.4 | 21.4 | 18.4 | 14.4 |
| 109.0 | 3.8 | 14.2 | 21.2 | 18.2 | 14.6 |
| 109.5 | 4.0 | 14.2 | 21.2 | 18.2 | 14.8 |
| 110.0 | 4.2 | 14.0 | 21.0 | 18.0 | 14.8 |
| 110.5 | 4.4 | 14.0 | 20.8 | 18.0 | 15.0 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|------|------|------|------|------|
| 111.0 | 4.4 | 13.8 | 20.4 | 17.8 | 15.0 |
| 111.5 | 4.6 | 13.6 | 20.2 | 17.8 | 15.2 |
| 112.0 | 4.4 | 13.4 | 20.0 | 17.4 | 15.4 |
| 112.5 | 4.6 | 13.0 | 19.8 | 17.4 | 15.4 |
| 113.0 | 4.8 | 12.2 | 19.8 | 17.2 | 15.6 |
| 113.5 | 5.0 | 11.4 | 19.6 | 17.0 | 15.6 |
| 114.0 | 5.0 | 11.2 | 19.4 | 17.0 | 15.8 |
| 114.5 | 5.2 | 12.0 | 19.2 | 16.8 | 16.0 |
| 115.0 | 5.6 | 12.6 | 19.0 | 16.8 | 16.0 |
| 115.5 | 5.6 | 12.4 | 18.8 | 16.8 | 16.0 |
| 116.0 | 5.6 | 12.4 | 18.6 | 16.6 | 16.2 |
| 116.5 | 5.4 | 12.2 | 18.2 | 16.6 | 16.2 |
| 117.0 | 5.4 | 12.0 | 18.0 | 16.6 | 16.4 |
| 117.5 | 5.6 | 12.0 | 17.8 | 16.6 | 16.6 |
| 118.0 | 5.8 | 12.0 | 17.6 | 16.4 | 16.6 |
| 118.5 | 6.0 | 12.0 | 17.4 | 16.4 | 16.8 |
| 119.0 | 6.4 | 12.0 | 17.4 | 16.4 | 17.0 |
| 119.5 | 6.4 | 12.0 | 17.2 | 16.4 | 17.0 |
| 120.0 | 6.6 | 12.0 | 17.0 | 16.2 | 17.2 |
| 120.5 | 7.0 | 12.0 | 17.0 | 16.4 | 17.4 |
| 121.0 | 7.4 | 11.6 | 17.0 | 16.2 | 17.4 |
| 121.5 | 7.6 | 11.4 | 16.8 | 16.4 | 17.8 |
| 122.0 | 7.8 | 12.2 | 16.8 | 16.4 | 17.8 |
| 122.5 | 8.0 | 12.2 | 16.8 | 16.4 | 18.0 |
| 123.0 | 8.4 | 11.4 | 16.8 | 16.4 | 18.2 |
| 123.5 | 8.6 | 11.0 | 16.8 | 16.4 | 18.2 |
| 124.0 | 9.0 | 10.8 | 16.8 | 16.4 | 18.4 |
| 124.5 | 9.4 | 11.2 | 16.6 | 16.4 | 18.4 |
| 125.0 | 9.6 | 11.2 | 16.6 | 16.4 | 18.6 |
| 125.5 | 9.8 | 11.4 | 16.6 | 16.6 | 18.8 |
| 126.0 | 10.2 | 11.6 | 16.6 | 16.6 | 18.8 |
| 126.5 | 10.4 | 11.8 | 16.6 | 16.6 | 19.0 |
| 127.0 | 10.8 | 12.0 | 16.8 | 16.6 | 19.0 |
| 127.5 | 11.0 | 12.2 | 16.8 | 16.8 | 19.2 |
| 128.0 | 11.4 | 12.6 | 17.0 | 16.8 | 19.2 |
| 128.5 | 11.8 | 12.8 | 17.0 | 16.8 | 19.4 |
| 129.0 | 12.2 | 13.0 | 17.2 | 17.0 | 19.4 |
| 129.5 | 12.4 | 13.2 | 17.0 | 17.0 | 19.6 |
| 130.0 | 12.6 | 13.6 | 16.2 | 17.0 | 19.8 |
| 130.5 | 13.0 | 13.8 | 16.0 | 17.2 | 19.8 |
| 131.0 | 13.4 | 14.0 | 15.8 | 17.2 | 20.0 |
| 131.5 | 13.6 | 14.4 | 15.0 | 17.4 | 20.2 |
| 132.0 | 14.0 | 14.6 | 15.0 | 17.4 | 20.2 |
| 132.5 | 14.4 | 15.0 | 15.2 | 17.6 | 20.4 |
| 133.0 | 14.6 | 15.2 | 15.6 | 17.8 | 20.6 |
| 133.5 | 15.0 | 15.6 | 15.8 | 18.0 | 20.6 |
| 134.0 | 15.4 | 15.8 | 16.2 | 18.2 | 20.8 |
| 134.5 | 15.6 | 16.2 | 16.4 | 18.4 | 21.0 |
| 135.0 | 16.0 | 16.4 | 16.8 | 18.6 | 21.2 |
| 135.5 | 16.4 | 16.8 | 17.0 | 18.8 | 21.4 |
| 136.0 | 16.8 | 17.0 | 17.4 | 19.0 | 21.4 |
| 136.5 | 17.0 | 17.2 | 17.6 | 19.4 | 21.6 |
| 137.0 | 17.6 | 17.6 | 18.0 | 19.6 | 21.8 |
| 137.5 | 17.8 | 18.0 | 18.2 | 19.8 | 22.0 |
| 138.0 | 18.2 | 18.4 | 18.6 | 20.2 | 22.2 |
| 138.5 | 18.6 | 18.6 | 19.0 | 20.6 | 22.4 |

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : HIGH-8-835-U10-SM-N.IES**

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|------|------|------|------|------|
| 139.0 | 19.0 | 19.0 | 19.2 | 20.8 | 22.6 |
| 139.5 | 19.6 | 19.4 | 19.6 | 21.2 | 22.8 |
| 140.0 | 20.0 | 19.6 | 20.0 | 21.6 | 23.2 |
| 140.5 | 20.0 | 20.2 | 20.0 | 22.0 | 23.0 |
| 141.0 | 20.4 | 19.8 | 20.0 | 21.8 | 23.2 |
| 141.5 | 20.8 | 20.2 | 20.4 | 22.2 | 23.6 |
| 142.0 | 21.6 | 20.8 | 20.6 | 22.6 | 23.8 |
| 142.5 | 22.0 | 21.0 | 20.8 | 22.8 | 24.2 |
| 143.0 | 22.2 | 21.4 | 21.2 | 23.0 | 24.2 |
| 143.5 | 22.4 | 21.8 | 21.4 | 23.0 | 24.6 |
| 144.0 | 22.6 | 22.0 | 21.6 | 22.6 | 24.6 |
| 144.5 | 22.6 | 22.2 | 21.6 | 22.8 | 24.8 |
| 145.0 | 22.8 | 22.4 | 21.8 | 23.0 | 25.0 |
| 145.5 | 23.2 | 22.6 | 22.0 | 22.8 | 25.2 |
| 146.0 | 23.2 | 22.8 | 22.2 | 22.6 | 25.2 |
| 146.5 | 23.4 | 23.0 | 22.2 | 22.6 | 25.0 |
| 147.0 | 23.8 | 23.0 | 22.4 | 22.8 | 25.0 |
| 147.5 | 23.8 | 23.2 | 22.4 | 23.0 | 25.0 |
| 148.0 | 24.0 | 23.2 | 22.8 | 23.2 | 25.0 |
| 148.5 | 24.2 | 23.4 | 22.8 | 23.4 | 25.0 |
| 149.0 | 24.4 | 23.6 | 23.0 | 23.8 | 25.0 |
| 149.5 | 24.4 | 23.8 | 23.2 | 24.0 | 25.2 |
| 150.0 | 24.6 | 24.0 | 23.4 | 24.2 | 25.4 |
| 150.5 | 24.8 | 24.2 | 23.6 | 24.4 | 25.6 |
| 151.0 | 24.8 | 24.4 | 24.4 | 24.6 | 25.8 |
| 151.5 | 25.0 | 24.6 | 24.6 | 24.8 | 26.0 |
| 152.0 | 25.2 | 24.8 | 24.8 | 25.0 | 26.0 |
| 152.5 | 25.4 | 25.2 | 25.4 | 25.4 | 26.4 |
| 153.0 | 25.8 | 25.4 | 25.8 | 25.6 | 26.6 |
| 153.5 | 26.0 | 25.6 | 26.0 | 25.8 | 26.8 |
| 154.0 | 26.4 | 26.0 | 26.2 | 26.2 | 27.0 |
| 154.5 | 26.8 | 26.2 | 26.6 | 26.4 | 27.2 |
| 155.0 | 27.0 | 26.6 | 26.8 | 26.6 | 27.4 |
| 155.5 | 27.4 | 26.8 | 27.0 | 26.8 | 27.6 |
| 156.0 | 27.6 | 27.0 | 27.2 | 27.0 | 27.8 |
| 156.5 | 28.0 | 27.4 | 27.6 | 27.2 | 28.0 |
| 157.0 | 28.2 | 27.6 | 27.8 | 27.4 | 28.0 |
| 157.5 | 28.6 | 28.0 | 28.0 | 27.6 | 28.0 |
| 158.0 | 28.8 | 28.2 | 28.2 | 27.6 | 28.0 |
| 158.5 | 29.0 | 28.4 | 28.4 | 27.8 | 28.0 |
| 159.0 | 29.2 | 28.6 | 28.4 | 27.8 | 28.2 |
| 159.5 | 29.6 | 28.8 | 28.6 | 28.0 | 28.0 |
| 160.0 | 29.8 | 29.2 | 28.6 | 28.0 | 28.2 |
| 160.5 | 30.0 | 29.2 | 28.8 | 28.0 | 28.0 |
| 161.0 | 30.2 | 29.6 | 29.0 | 28.2 | 28.0 |
| 161.5 | 30.6 | 29.8 | 29.2 | 28.2 | 28.0 |
| 162.0 | 30.8 | 30.0 | 29.2 | 28.4 | 28.0 |
| 162.5 | 31.0 | 30.2 | 29.4 | 28.4 | 28.2 |
| 163.0 | 31.2 | 30.4 | 29.6 | 28.6 | 28.2 |
| 163.5 | 31.4 | 30.6 | 29.8 | 28.6 | 28.2 |
| 164.0 | 31.6 | 30.8 | 30.0 | 28.8 | 28.4 |
| 164.5 | 31.6 | 31.0 | 30.2 | 29.0 | 28.6 |
| 165.0 | 31.8 | 31.2 | 30.2 | 29.2 | 28.6 |
| 165.5 | 32.0 | 31.4 | 30.4 | 29.2 | 28.8 |
| 166.0 | 32.0 | 31.4 | 30.6 | 29.6 | 29.0 |
| 166.5 | 32.2 | 31.6 | 30.8 | 29.8 | 29.4 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|------|------|------|------|------|
| 167.0 | 32.2 | 31.8 | 31.0 | 30.0 | 29.4 |
| 167.5 | 32.4 | 31.8 | 31.0 | 30.2 | 29.8 |
| 168.0 | 32.2 | 31.8 | 31.2 | 30.4 | 30.0 |
| 168.5 | 32.4 | 32.0 | 31.2 | 30.6 | 30.2 |
| 169.0 | 32.4 | 32.0 | 31.2 | 30.8 | 30.4 |
| 169.5 | 32.4 | 32.0 | 31.4 | 31.0 | 30.6 |
| 170.0 | 32.4 | 32.0 | 31.6 | 31.2 | 30.8 |
| 170.5 | 32.4 | 32.2 | 31.6 | 31.4 | 31.0 |
| 171.0 | 32.4 | 32.2 | 31.8 | 31.6 | 31.2 |
| 171.5 | 32.6 | 32.2 | 32.0 | 31.8 | 31.4 |
| 172.0 | 32.4 | 32.2 | 32.0 | 31.8 | 31.8 |
| 172.5 | 32.4 | 32.2 | 32.0 | 32.0 | 31.8 |
| 173.0 | 32.4 | 32.2 | 32.2 | 32.0 | 32.2 |
| 173.5 | 32.4 | 32.2 | 32.2 | 32.2 | 32.2 |
| 174.0 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 |
| 174.5 | 32.4 | 32.4 | 32.4 | 32.4 | 32.6 |
| 175.0 | 32.6 | 32.6 | 32.6 | 32.6 | 32.8 |
| 175.5 | 32.6 | 32.6 | 32.6 | 32.8 | 33.2 |
| 176.0 | 32.8 | 32.6 | 32.8 | 32.8 | 33.2 |
| 176.5 | 32.8 | 32.8 | 32.8 | 32.8 | 33.6 |
| 177.0 | 32.8 | 32.8 | 33.0 | 33.0 | 33.6 |
| 177.5 | 33.0 | 32.8 | 33.0 | 33.2 | 33.6 |
| 178.0 | 33.0 | 32.8 | 33.0 | 33.4 | 33.8 |
| 178.5 | 33.0 | 33.0 | 33.2 | 33.4 | 33.8 |
| 179.0 | 33.0 | 33.0 | 33.2 | 33.4 | 34.0 |
| 179.5 | 33.0 | 33.2 | 33.2 | 33.4 | 34.0 |
| 180.0 | 33.4 | 33.4 | 33.4 | 33.4 | 33.4 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HIGH-8-835-U10-SM-N.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 5745.51 | N.A. | 16.90 |
| 0-30 | 11622.59 | N.A. | 34.10 |
| 0-40 | 18382.61 | N.A. | 54.00 |
| 0-60 | 30410.12 | N.A. | 89.30 |
| 0-80 | 33789.94 | N.A. | 99.30 |
| 0-90 | 33918.16 | N.A. | 99.70 |
| 10-90 | 32553.21 | N.A. | 95.60 |
| 20-40 | 12637.09 | N.A. | 37.10 |
| 20-50 | 19430.86 | N.A. | 57.10 |
| 40-70 | 14578.82 | N.A. | 42.80 |
| 60-80 | 3379.82 | N.A. | 9.90 |
| 70-80 | 828.51 | N.A. | 2.40 |
| 80-90 | 128.22 | N.A. | 0.40 |
| 90-110 | 38.82 | N.A. | 0.10 |
| 90-120 | 53.46 | N.A. | 0.20 |
| 90-130 | 66.76 | N.A. | 0.20 |
| 90-150 | 94.58 | N.A. | 0.30 |
| 90-180 | 118.44 | N.A. | 0.30 |
| 110-180 | 79.63 | N.A. | 0.20 |
| 0-180 | 34036.61 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1364.95 |
| 10-20 | 4380.56 |
| 20-30 | 5877.08 |
| 30-40 | 6760.02 |
| 40-50 | 6793.76 |
| 50-60 | 5233.75 |
| 60-70 | 2551.31 |
| 70-80 | 828.51 |
| 80-90 | 128.22 |
| 90-100 | 21.45 |
| 100-110 | 17.37 |
| 110-120 | 14.64 |
| 120-130 | 13.30 |
| 130-140 | 13.69 |
| 140-150 | 14.14 |
| 150-160 | 12.27 |
| 160-170 | 8.51 |
| 170-180 | 3.08 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HIGH-8-835-U10-SM-N.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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 |
| 3 | 94 | 85 | 77 | 72 | 91 | 83 | 76 | 71 | 80 | 74 | 70 | 77 | 72 | 68 | 75 | 71 | 67 | 65 |
| 4 | 87 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 72 | 66 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 54 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 50 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 56 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | 39 |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 35 |
| 9 | 60 | 48 | 40 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 32 |
| 10 | 57 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 |

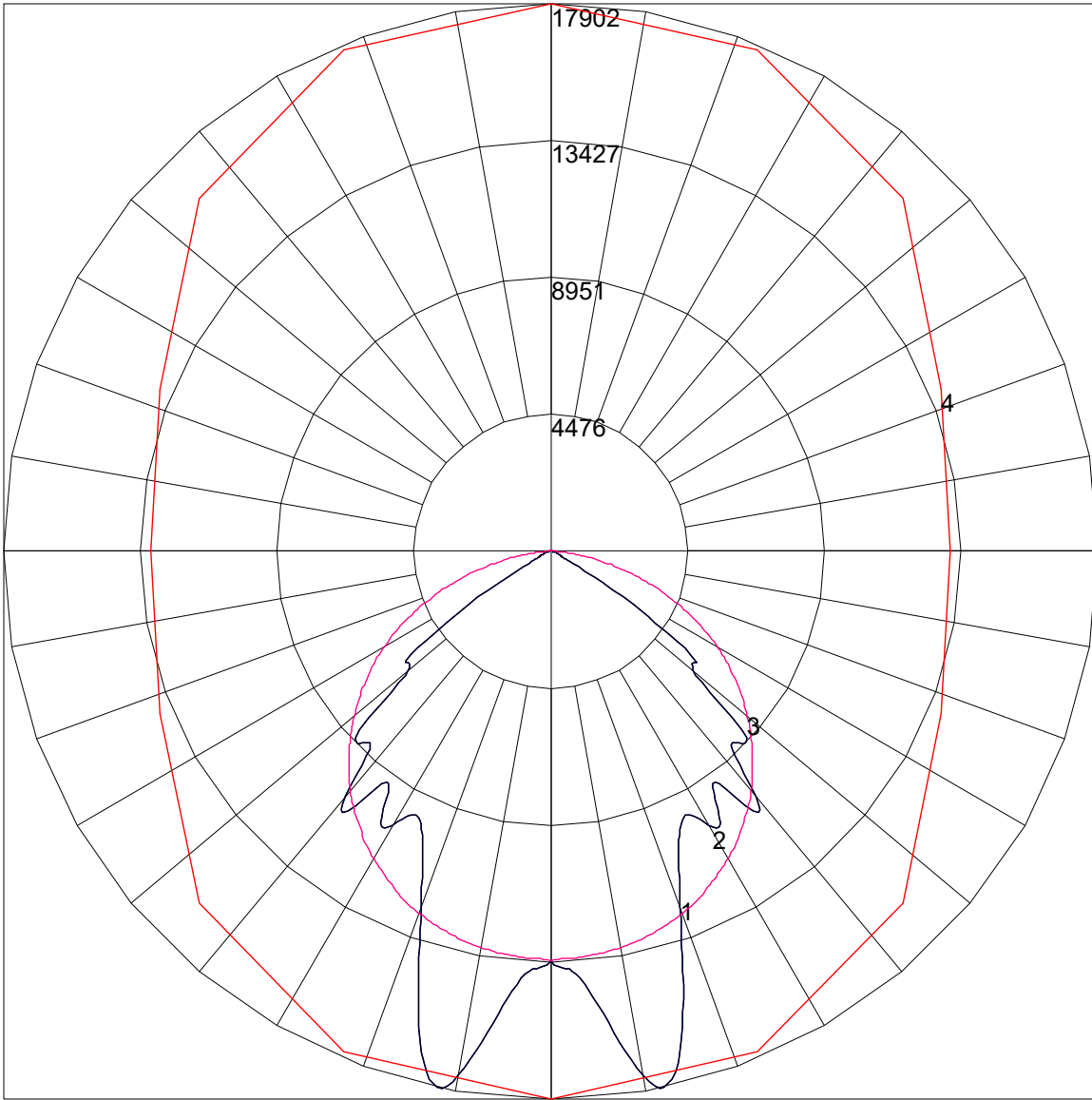
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HIGH-8-835-U10-SM-N.IES

UGR TABLE - CORRECTED

| Reflectances | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 26.2 | 27.7 | 26.6 | 28.1 | 28.4 | 23.5 | 24.9 | 23.8 | 25.3 | 25.6 |
| | 3H | 27.8 | 29.1 | 28.2 | 29.4 | 29.8 | 23.4 | 24.7 | 23.8 | 25.0 | 25.4 |
| | 4H | 28.2 | 29.4 | 28.6 | 29.8 | 30.2 | 23.3 | 24.6 | 23.8 | 24.9 | 25.3 |
| | 6H | 28.3 | 29.5 | 28.8 | 29.9 | 30.3 | 23.3 | 24.4 | 23.7 | 24.8 | 25.2 |
| | 8H | 28.4 | 29.4 | 28.8 | 29.8 | 30.3 | 23.3 | 24.3 | 23.7 | 24.7 | 25.2 |
| | 12H | 28.4 | 29.4 | 28.8 | 29.8 | 30.2 | 23.2 | 24.2 | 23.7 | 24.6 | 25.1 |
| 4H | 2H | 26.3 | 27.6 | 26.7 | 27.9 | 28.3 | 23.8 | 25.1 | 24.3 | 25.4 | 25.8 |
| | 3H | 27.9 | 28.9 | 28.4 | 29.3 | 29.8 | 23.8 | 24.8 | 24.2 | 25.2 | 25.6 |
| | 4H | 28.4 | 29.3 | 28.8 | 29.7 | 30.2 | 23.7 | 24.6 | 24.2 | 25.1 | 25.5 |
| | 6H | 28.5 | 29.3 | 29.0 | 29.8 | 30.2 | 23.7 | 24.4 | 24.1 | 24.9 | 25.4 |
| | 8H | 28.5 | 29.3 | 29.0 | 29.7 | 30.2 | 23.6 | 24.4 | 24.1 | 24.8 | 25.3 |
| | 12H | 28.6 | 29.2 | 29.1 | 29.7 | 30.2 | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 |
| 8H | 4H | 28.2 | 29.0 | 28.7 | 29.4 | 29.9 | 23.7 | 24.5 | 24.2 | 24.9 | 25.4 |
| | 6H | 28.4 | 29.0 | 28.9 | 29.5 | 30.0 | 23.7 | 24.3 | 24.2 | 24.8 | 25.3 |
| | 8H | 28.4 | 28.9 | 28.9 | 29.5 | 30.0 | 23.6 | 24.1 | 24.2 | 24.7 | 25.2 |
| | 12H | 28.4 | 28.9 | 29.0 | 29.4 | 30.0 | 23.6 | 24.1 | 24.1 | 24.6 | 25.2 |
| 12H | 4H | 28.2 | 28.9 | 28.7 | 29.4 | 29.8 | 23.7 | 24.3 | 24.2 | 24.8 | 25.3 |
| | 6H | 28.4 | 28.9 | 28.9 | 29.4 | 29.9 | 23.6 | 24.2 | 24.2 | 24.6 | 25.2 |
| | 8H | 28.4 | 28.8 | 28.9 | 29.4 | 29.9 | 23.6 | 24.1 | 24.1 | 24.6 | 25.2 |

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 17902 Located At Horizontal Angle = 90, Vertical Angle = 12
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (12) (Through Max. Cd.)