

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

| | |
|---|---|
| Maximum Intensity (Luminaire orientation as tested.) | 279.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal |
|---|---|

| | | |
|-------------|----------------|-----------------|
| Beam Spread | At 10% of Imax | 155.2V x 179.2H |
| | At 50% of Imax | 114.6V x 150.3H |
| | At 90% of Imax | 55.7V x 61.1H |

| | | |
|-----------|----------------|-----------------------|
| Beam Flux | Total | 995.2 lumens per klm. |
| | To 10% of Imax | 992.2 lumens per klm. |
| | To 50% of Imax | 808.2 lumens per klm. |
| | To 90% of Imax | 213.5 lumens per klm. |

| | |
|--------------|--------|
| Upward LOR | 0.0 % |
| Downward LOR | 99.5 % |

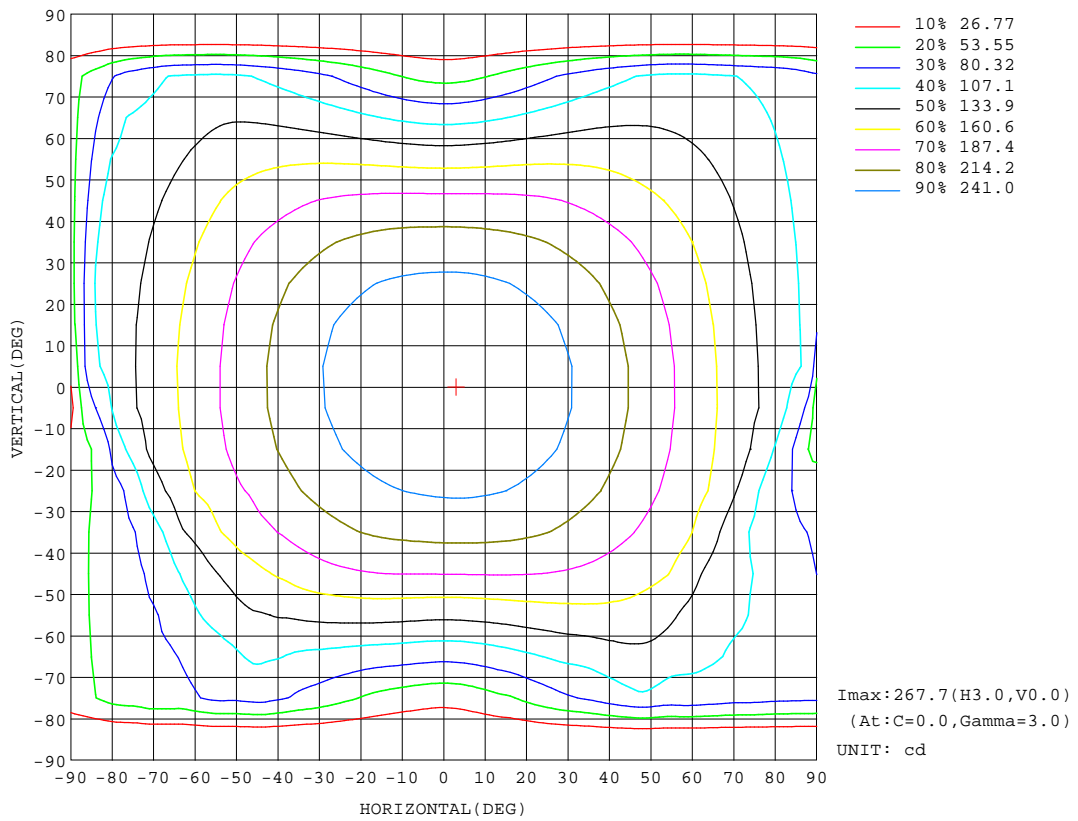
| | |
|--|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|--|---------|

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-22

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------|-----------------------|
| Test:U:24.00V I:0.8805A P:21.13W PF:1.000 Lamp Flux:958.066x1 lm | | |
| NAME: 8.02.019.0064 LLS-OP-W30A-L12-S | TYPE:LED | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:2024010091 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD | SUR.: | PROTECTION ANGLE: |

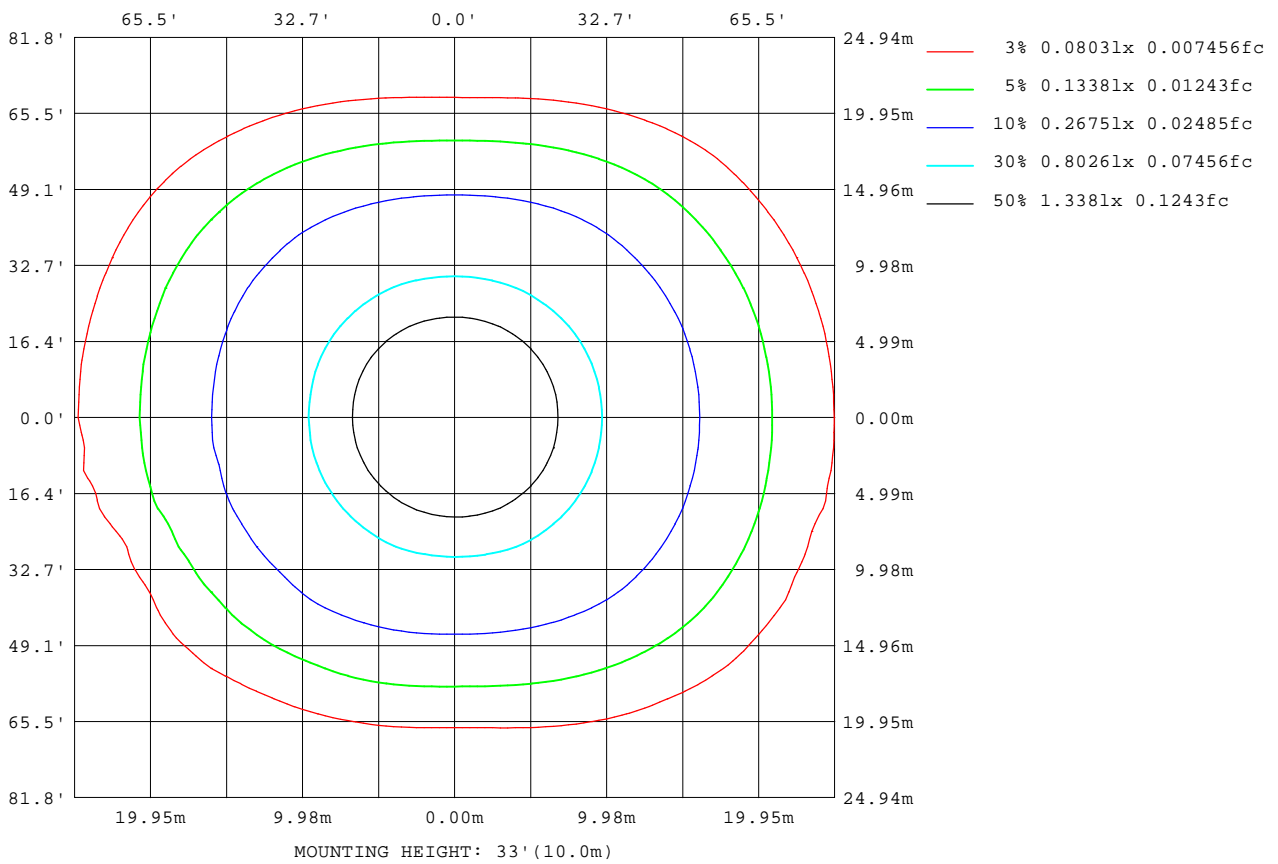


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-22

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|----------|-----------------------|
| Test:U:24.00V I:0.8805A P:21.13W PF:1.000 Lamp Flux:958.066x1 lm | | |
| NAME: 8.02.019.0064 LLS-OP-W30A-L12-S | TYPE:LED | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:2024010091 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD | SUR.: | PROTECTION ANGLE: |



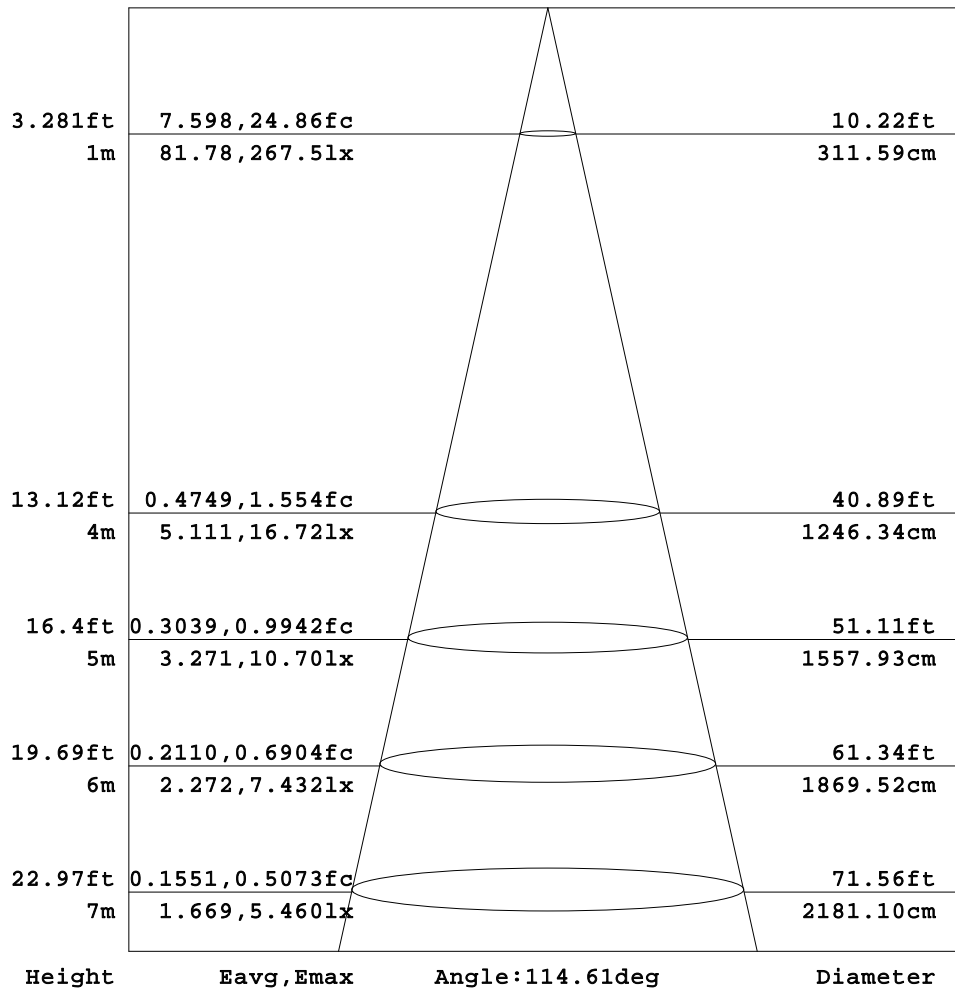
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-22

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|----------|-----------------------|
| Test:U:24.00V I:0.8805A P:21.13W PF:1.000 Lamp Flux:958.066x1 lm | | |
| NAME: 8.02.019.0064 LLS-OP-W30A-L12-S | TYPE:LED | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:2024010091 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD | SUR.: | PROTECTION ANGLE: |

Flux out:633.0 lm

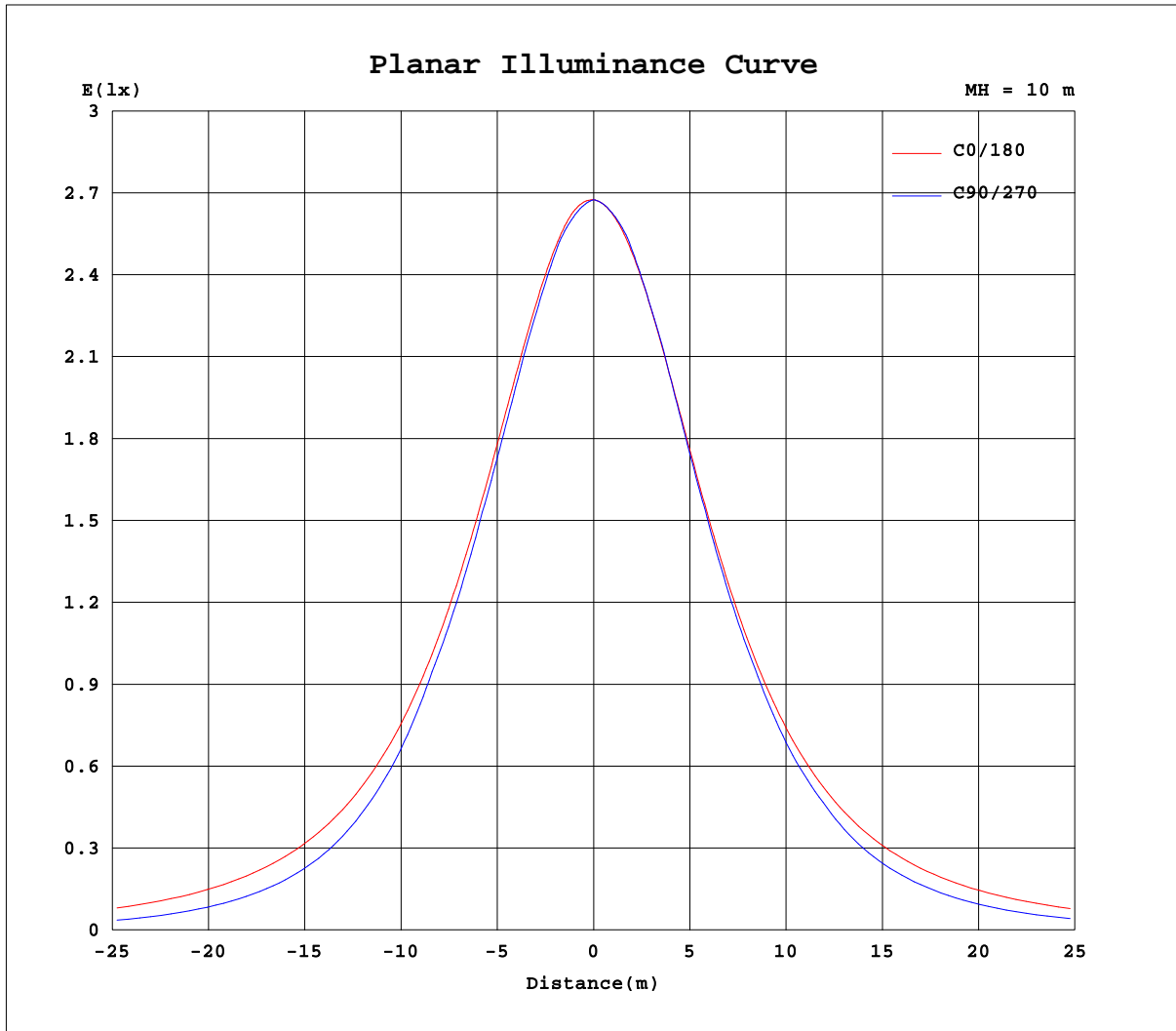


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-22

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
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Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-22

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------|-----------------------|
| Test:U:24.00V I:0.8805A P:21.13W PF:1.000 Lamp Flux:958.066x1 lm | | |
| NAME: 8.02.019.0064 LLS-OP-W30A-L12-S | TYPE:LED | WEIGHT: |
| DIM.: | SPEC.: | SERIAL No.:2024010091 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD | SUR.: | PROTECTION ANGLE: |

Table--1

UNIT: cd

| H(DEG) V(DEG) | -90 | -85 | -80 | -75 | -70 | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -80 | 40.8 | 49.7 | 57.7 | 61.9 | 67.9 | 68.9 | 72.2 | 78.3 | 76.3 | 78.8 | 73.8 | 65.8 | 56.3 | 45.4 | 35.9 | 25.8 | 17.4 | 12.0 | 9.89 |
| -75 | 41.2 | 50.9 | 62.5 | 66.4 | 72.6 | 72.1 | 77.9 | 85.5 | 85.6 | 89.7 | 84.2 | 75.9 | 69.4 | 60.9 | 52.5 | 45.6 | 40.6 | 36.7 | 34.8 |
| -70 | 41.5 | 52.0 | 67.3 | 70.9 | 77.4 | 75.3 | 83.5 | 92.6 | 94.9 | 101 | 94.7 | 86.0 | 82.6 | 76.4 | 69.1 | 65.5 | 63.8 | 61.5 | 59.8 |
| -65 | 41.3 | 53.6 | 69.0 | 71.8 | 77.3 | 79.2 | 90.1 | 99.3 | 104 | 111 | 109 | 103 | 100 | 97.4 | 94.2 | 92.1 | 90.5 | 88.3 | 87.0 |
| -60 | 41.0 | 55.2 | 70.8 | 72.7 | 77.3 | 83.2 | 96.6 | 106 | 112 | 122 | 122 | 119 | 118 | 118 | 119 | 119 | 117 | 115 | 114 |
| -55 | 40.1 | 56.0 | 70.1 | 76.2 | 78.9 | 89.0 | 104 | 112 | 123 | 132 | 136 | 138 | 141 | 142 | 143 | 143 | 142 | 141 | 140 |
| -50 | 39.2 | 56.8 | 69.5 | 79.6 | 80.5 | 94.7 | 112 | 118 | 134 | 142 | 149 | 157 | 163 | 166 | 167 | 168 | 167 | 166 | 166 |
| -45 | 39.1 | 57.0 | 68.3 | 77.5 | 84.7 | 102 | 118 | 133 | 147 | 155 | 163 | 172 | 178 | 183 | 185 | 187 | 188 | 188 | 188 |
| -40 | 38.9 | 57.3 | 67.0 | 75.4 | 88.9 | 110 | 124 | 147 | 159 | 168 | 178 | 187 | 193 | 199 | 203 | 207 | 209 | 210 | 211 |
| -35 | 38.8 | 55.5 | 67.2 | 78.9 | 96.8 | 121 | 140 | 157 | 168 | 178 | 188 | 196 | 203 | 209 | 214 | 218 | 221 | 222 | 223 |
| -30 | 38.6 | 53.7 | 67.4 | 82.3 | 105 | 132 | 157 | 167 | 178 | 188 | 198 | 206 | 214 | 220 | 225 | 230 | 232 | 235 | 236 |
| -25 | 39.3 | 53.1 | 69.0 | 91.3 | 122 | 143 | 161 | 171 | 184 | 195 | 204 | 213 | 221 | 228 | 233 | 238 | 241 | 243 | 245 |
| -20 | 40.0 | 52.5 | 70.7 | 100 | 139 | 153 | 165 | 175 | 190 | 201 | 211 | 220 | 228 | 235 | 241 | 246 | 249 | 252 | 253 |
| -15 | 31.9 | 53.7 | 87.2 | 115 | 141 | 154 | 168 | 180 | 193 | 204 | 215 | 224 | 233 | 240 | 246 | 251 | 255 | 257 | 259 |
| -10 | 23.9 | 55.0 | 104 | 130 | 143 | 155 | 172 | 184 | 196 | 208 | 218 | 228 | 237 | 245 | 251 | 257 | 261 | 263 | 264 |
| -5 | 22.0 | 74.3 | 109 | 131 | 145 | 157 | 172 | 185 | 197 | 209 | 220 | 230 | 239 | 247 | 253 | 259 | 262 | 265 | 266 |
| 0 | 20.1 | 93.6 | 114 | 131 | 146 | 160 | 173 | 186 | 198 | 210 | 221 | 231 | 240 | 248 | 255 | 260 | 264 | 266 | 268 |
| 5 | 31.1 | 96.0 | 117 | 132 | 146 | 159 | 172 | 185 | 197 | 209 | 220 | 230 | 239 | 247 | 254 | 259 | 263 | 265 | 267 |
| 10 | 42.0 | 98.5 | 120 | 132 | 145 | 159 | 171 | 184 | 197 | 208 | 219 | 229 | 239 | 247 | 253 | 258 | 262 | 264 | 266 |
| 15 | 42.5 | 101 | 119 | 132 | 144 | 157 | 170 | 183 | 195 | 206 | 217 | 227 | 236 | 243 | 249 | 254 | 258 | 260 | 261 |
| 20 | 42.9 | 104 | 119 | 131 | 144 | 156 | 169 | 181 | 193 | 204 | 215 | 224 | 232 | 240 | 246 | 250 | 253 | 255 | 256 |
| 25 | 44.6 | 102 | 118 | 129 | 141 | 154 | 166 | 178 | 189 | 200 | 209 | 218 | 226 | 232 | 238 | 242 | 245 | 246 | 247 |
| 30 | 46.4 | 100 | 116 | 128 | 139 | 151 | 163 | 174 | 185 | 195 | 204 | 212 | 219 | 225 | 230 | 234 | 236 | 237 | 238 |
| 35 | 46.3 | 97.4 | 115 | 126 | 136 | 147 | 159 | 169 | 180 | 189 | 196 | 203 | 210 | 215 | 219 | 222 | 224 | 225 | 225 |
| 40 | 46.3 | 94.4 | 113 | 123 | 134 | 144 | 154 | 165 | 174 | 182 | 189 | 195 | 200 | 205 | 208 | 211 | 212 | 213 | 213 |
| 45 | 46.4 | 89.6 | 112 | 121 | 130 | 140 | 149 | 159 | 167 | 173 | 179 | 184 | 188 | 191 | 193 | 194 | 195 | 195 | 195 |
| 50 | 46.5 | 84.8 | 110 | 118 | 127 | 135 | 144 | 152 | 159 | 164 | 169 | 173 | 176 | 177 | 177 | 177 | 177 | 176 | 176 |
| 55 | 46.3 | 79.9 | 108 | 115 | 123 | 130 | 138 | 145 | 151 | 154 | 156 | 157 | 157 | 157 | 156 | 154 | 153 | 151 | 151 |
| 60 | 46.1 | 75.0 | 106 | 112 | 119 | 125 | 132 | 138 | 142 | 144 | 143 | 142 | 139 | 137 | 134 | 131 | 128 | 126 | 125 |
| 65 | 46.2 | 71.2 | 97.8 | 109 | 114 | 120 | 125 | 130 | 132 | 131 | 128 | 125 | 121 | 116 | 112 | 107 | 103 | 99.6 | 98.3 |
| 70 | 46.3 | 67.4 | 89.7 | 106 | 110 | 114 | 119 | 122 | 121 | 118 | 113 | 108 | 102 | 95.9 | 89.3 | 82.9 | 77.2 | 72.9 | 71.1 |
| 75 | 46.3 | 61.4 | 78.8 | 92.3 | 102 | 108 | 111 | 112 | 110 | 106 | 99.6 | 92.7 | 85.2 | 77.1 | 68.7 | 60.4 | 52.9 | 47.0 | 44.5 |
| 80 | 46.2 | 55.4 | 67.8 | 78.7 | 93.1 | 102 | 103 | 102 | 99.0 | 93.1 | 85.6 | 77.2 | 68.0 | 58.2 | 48.1 | 37.9 | 28.5 | 21.1 | 17.9 |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| DIM.: | SPEC.: | SERIAL No.:2024010091 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| H(DEG) V(DEG) | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -80 | 13.3 | 21.3 | 27.4 | 38.5 | 50.6 | 61.5 | 71.8 | 81.1 | 89.7 | 89.4 | 85.7 | 86.2 | 83.1 | 83.8 | 84.6 | 85.2 | 85.3 | 85.5 |
| -75 | 37.5 | 43.9 | 50.2 | 59.5 | 69.3 | 77.7 | 84.0 | 92.9 | 101 | 102 | 96.9 | 97.6 | 94.4 | 91.0 | 90.1 | 87.2 | 86.1 | 85.2 |
| -70 | 61.7 | 66.5 | 73.1 | 80.4 | 87.9 | 93.8 | 96.3 | 105 | 112 | 115 | 108 | 109 | 106 | 98.2 | 95.7 | 89.3 | 86.8 | 84.8 |
| -65 | 88.4 | 92.1 | 97.1 | 103 | 108 | 113 | 116 | 122 | 126 | 125 | 117 | 114 | 110 | 104 | 98.6 | 92.4 | 87.8 | 84.3 |
| -60 | 115 | 118 | 121 | 125 | 129 | 133 | 136 | 139 | 140 | 136 | 125 | 119 | 114 | 110 | 102 | 95.4 | 88.8 | 83.8 |
| -55 | 141 | 142 | 145 | 147 | 149 | 151 | 153 | 153 | 152 | 148 | 138 | 125 | 117 | 111 | 104 | 95.7 | 89.4 | 82.5 |
| -50 | 166 | 167 | 168 | 169 | 170 | 170 | 170 | 168 | 164 | 159 | 152 | 132 | 120 | 113 | 107 | 96.0 | 90.0 | 81.2 |
| -45 | 188 | 189 | 189 | 188 | 187 | 185 | 182 | 178 | 173 | 167 | 159 | 143 | 125 | 113 | 107 | 97.3 | 88.4 | 80.3 |
| -40 | 211 | 210 | 209 | 207 | 204 | 200 | 194 | 188 | 182 | 174 | 167 | 155 | 130 | 114 | 106 | 98.7 | 86.7 | 79.3 |
| -35 | 223 | 223 | 221 | 218 | 215 | 210 | 204 | 197 | 189 | 181 | 172 | 161 | 142 | 120 | 104 | 96.5 | 83.9 | 76.5 |
| -30 | 236 | 235 | 233 | 230 | 225 | 219 | 213 | 205 | 197 | 187 | 177 | 167 | 155 | 126 | 102 | 94.2 | 81.1 | 73.7 |
| -25 | 245 | 243 | 241 | 237 | 232 | 226 | 219 | 211 | 201 | 191 | 181 | 169 | 157 | 137 | 112 | 90.8 | 77.2 | 68.1 |
| -20 | 253 | 252 | 249 | 245 | 240 | 233 | 225 | 216 | 206 | 196 | 184 | 172 | 160 | 147 | 121 | 87.4 | 73.3 | 62.6 |
| -15 | 259 | 257 | 254 | 250 | 244 | 237 | 229 | 220 | 209 | 198 | 187 | 174 | 162 | 149 | 129 | 105 | 75.1 | 46.5 |
| -10 | 264 | 263 | 259 | 254 | 248 | 241 | 233 | 223 | 212 | 201 | 189 | 176 | 163 | 150 | 137 | 123 | 76.9 | 30.5 |
| -5 | 266 | 264 | 261 | 256 | 250 | 242 | 234 | 224 | 213 | 202 | 189 | 177 | 163 | 150 | 137 | 123 | 93.7 | 35.0 |
| 0 | 268 | 266 | 262 | 257 | 251 | 244 | 235 | 225 | 214 | 202 | 190 | 177 | 164 | 150 | 137 | 123 | 110 | 39.6 |
| 5 | 267 | 265 | 261 | 256 | 250 | 243 | 234 | 224 | 213 | 201 | 189 | 176 | 163 | 150 | 136 | 123 | 110 | 61.1 |
| 10 | 266 | 264 | 260 | 255 | 249 | 242 | 233 | 223 | 212 | 201 | 188 | 176 | 163 | 149 | 136 | 123 | 110 | 82.6 |
| 15 | 261 | 259 | 255 | 251 | 245 | 237 | 229 | 219 | 209 | 198 | 186 | 174 | 161 | 148 | 135 | 122 | 109 | 84.7 |
| 20 | 256 | 254 | 250 | 246 | 240 | 233 | 225 | 216 | 206 | 195 | 183 | 171 | 159 | 146 | 134 | 121 | 109 | 86.8 |
| 25 | 246 | 245 | 242 | 237 | 232 | 226 | 218 | 210 | 201 | 191 | 180 | 168 | 157 | 144 | 132 | 120 | 109 | 87.2 |
| 30 | 237 | 236 | 233 | 229 | 224 | 219 | 212 | 204 | 196 | 186 | 176 | 165 | 154 | 143 | 131 | 119 | 108 | 87.6 |
| 35 | 225 | 223 | 221 | 218 | 214 | 209 | 203 | 196 | 188 | 180 | 170 | 161 | 150 | 139 | 129 | 118 | 107 | 87.4 |
| 40 | 213 | 211 | 209 | 207 | 203 | 199 | 193 | 187 | 180 | 173 | 165 | 156 | 146 | 136 | 126 | 116 | 106 | 87.2 |
| 45 | 195 | 194 | 193 | 192 | 190 | 186 | 182 | 177 | 171 | 165 | 158 | 150 | 142 | 133 | 123 | 114 | 105 | 86.7 |
| 50 | 177 | 177 | 177 | 177 | 176 | 174 | 170 | 166 | 162 | 157 | 151 | 145 | 137 | 129 | 121 | 112 | 104 | 86.2 |
| 55 | 151 | 153 | 154 | 156 | 157 | 157 | 156 | 155 | 152 | 148 | 144 | 139 | 132 | 125 | 117 | 110 | 102 | 85.9 |
| 60 | 126 | 128 | 131 | 134 | 137 | 140 | 142 | 143 | 141 | 139 | 136 | 132 | 127 | 121 | 114 | 108 | 101 | 85.7 |
| 65 | 99.4 | 102 | 107 | 111 | 116 | 121 | 125 | 128 | 130 | 130 | 129 | 126 | 122 | 116 | 111 | 106 | 100 | 85.5 |
| 70 | 72.6 | 76.7 | 82.4 | 88.8 | 95.5 | 102 | 108 | 113 | 118 | 121 | 121 | 120 | 117 | 112 | 108 | 104 | 98.9 | 85.3 |
| 75 | 46.6 | 52.3 | 59.8 | 68.2 | 76.6 | 84.8 | 92.5 | 99.4 | 106 | 110 | 113 | 113 | 111 | 108 | 104 | 101 | 95.3 | 85.1 |
| 80 | 20.7 | 27.9 | 37.3 | 47.5 | 57.7 | 67.6 | 76.9 | 85.4 | 93.1 | 99.8 | 105 | 106 | 105 | 103 | 101 | 98.5 | 91.8 | 84.9 |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-22

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks: