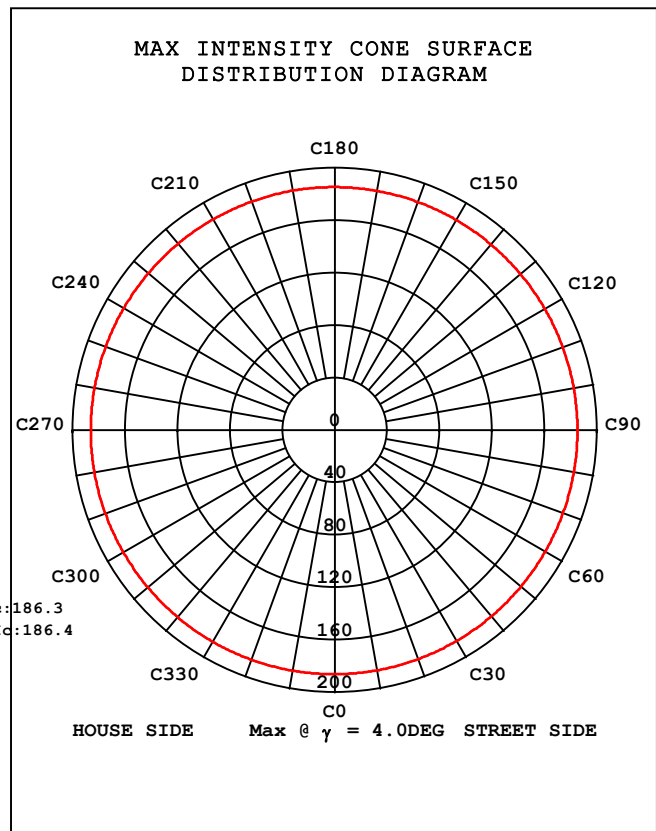
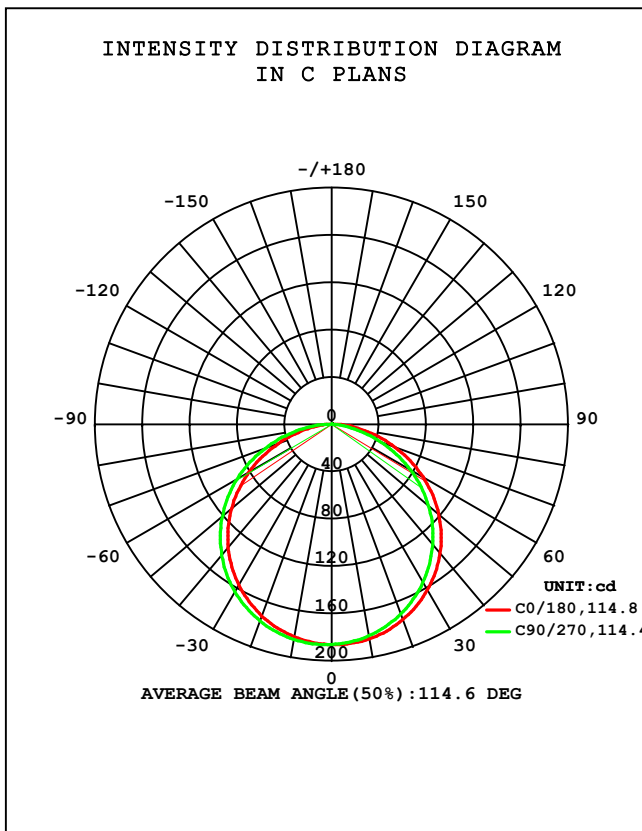


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 102.5 lm/W | | | |
|-------------------|------------------|----------------------------------|----------|------------------------|---------|
| MODEL | 2835-60P-2700K5W | Imax (cd) | 186.5 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | 5.3 | LOR (%) | 100.0 | η street_down (%) | 48.5 |
| RATED VOLTAGE (V) | DC12 | TOTAL FLUX (lm) | 543.3 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 543.3 | MAXIMUM @ (C, γ) | 315, 4.0 | η house_down (%) | 51.5 |
| LAMPS INSIDE | DC12 | η up (%) | 0.0 | 76 FLASHAREA (m2) | 0.00100 |
| TEST VOLTAGE (V) | | η down (%) | 100.0 | SLI | 15.660 |

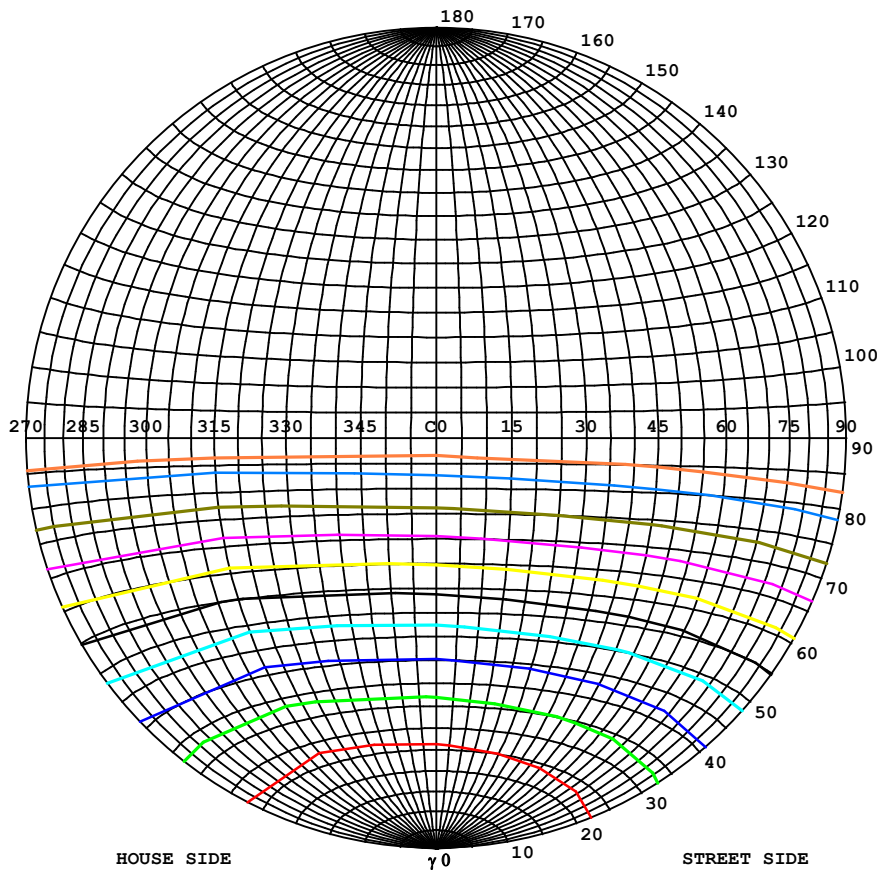


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC01
 Test Date: 2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.702m [K=1.0000]
 Remarks: EKF4148PRO (1000mm)
 DC12V-2835-60P-2700K

STREETLIGHT ISOCANDELA DIAGRAM

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |



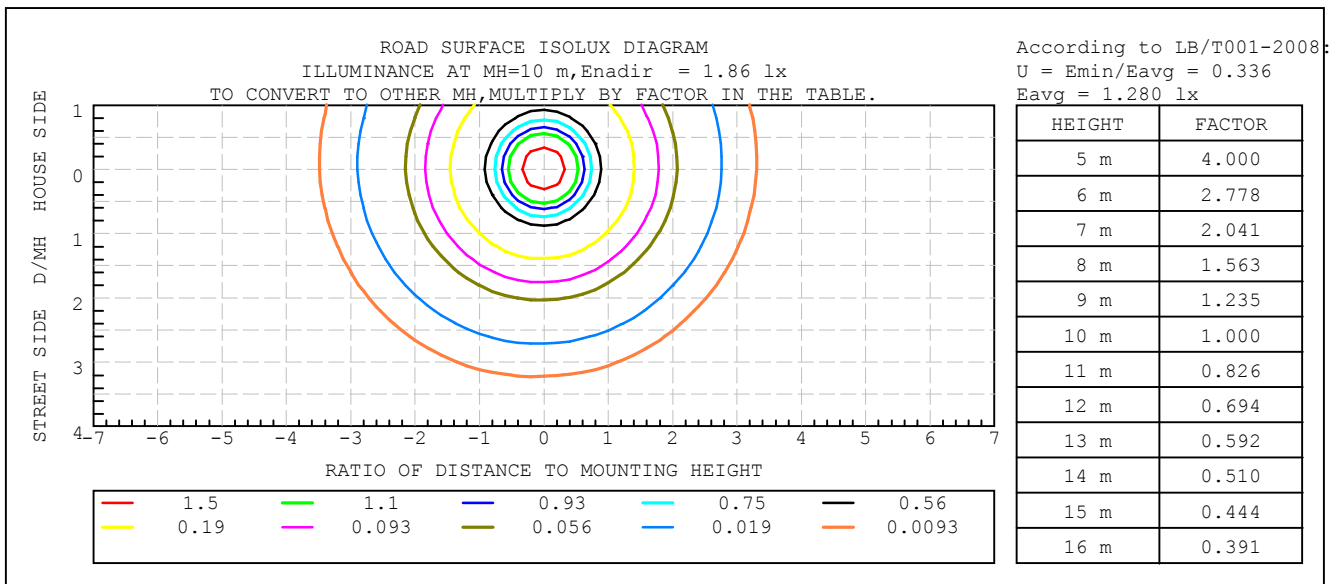
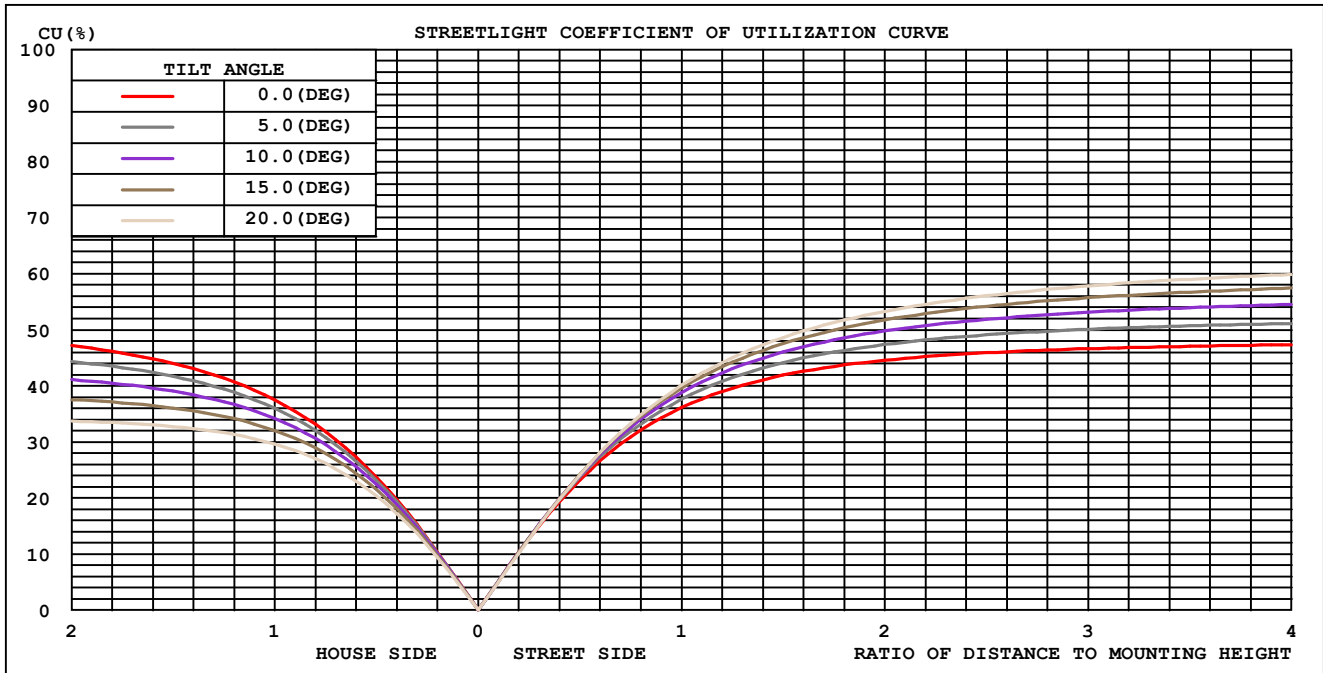
Classification:

IES:Type VS - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:53.34cd/klm
 Max.At90:0.0341cd/klm
 Max.80-90:53.34cd/klm
 NRB 5101:Limited[7.0%]

| ISOCANDELA DIAGRAM | |
|------------------------|-----|
| UNIT | cd |
| I _{max} =100% | 187 |
| 90% | 168 |
| 80% | 149 |
| 70% | 131 |
| 60% | 112 |
| 50% | 93 |
| 40% | 75 |
| 30% | 56 |
| 20% | 37 |
| 10% | 19 |
| 5% | 9 |

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC01
 Test Date:2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.702m [K=1.0000]
 Remarks: EKF4148PRO(1000mm)
 DC12V-2835-60P-2700K

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

ZONAL FLUX DIAGRAM

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |

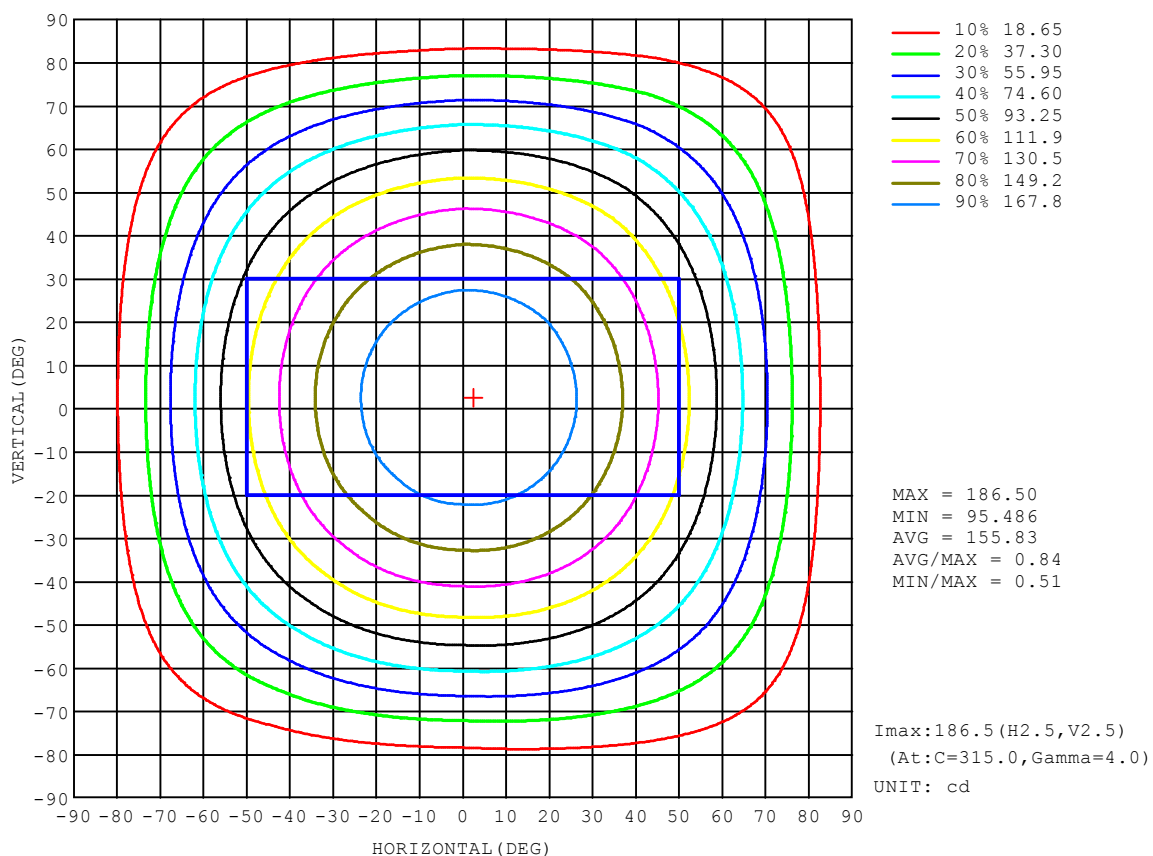
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 184.1 | 182.7 | 181.5 | 181.5 | 182.4 | 183.7 | 184.7 | 184.9 | 0- 10 | 17.63 | 17.63 | 3.25,3.25 |
| 20 | 176.0 | 173.4 | 170.8 | 170.8 | 172.6 | 175.0 | 177.1 | 177.5 | 10- 20 | 50.65 | 68.29 | 12.6,12.6 |
| 30 | 162.0 | 158.2 | 154.5 | 154.5 | 157.1 | 160.7 | 163.7 | 164.4 | 20- 30 | 77.19 | 145.5 | 26.8,26.8 |
| 40 | 142.7 | 137.8 | 133.1 | 133.1 | 136.3 | 140.8 | 144.7 | 145.6 | 30- 40 | 93.80 | 239.3 | 44,44 |
| 50 | 118.3 | 112.4 | 107.0 | 106.8 | 110.7 | 115.9 | 120.7 | 121.8 | 40- 50 | 98.15 | 337.4 | 62.1,62.1 |
| 60 | 89.44 | 82.86 | 76.90 | 76.44 | 80.74 | 86.63 | 92.23 | 93.38 | 50- 60 | 89.31 | 426.7 | 78.5,78.5 |
| 70 | 57.41 | 50.52 | 44.33 | 43.62 | 48.09 | 54.42 | 60.24 | 61.52 | 60- 70 | 68.10 | 494.8 | 91.1,91.1 |
| 80 | 25.77 | 20.11 | 14.64 | 13.82 | 18.16 | 23.25 | 27.74 | 28.98 | 70- 80 | 38.54 | 533.4 | 98.2,98.2 |
| 90 | 0.0185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 9.912 | 543.3 | 100,100 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0.0001 | 543.3 | 100,100 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 543.3 | 100,100 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 543.3 | 100,100 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 543.3 | 100,100 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 543.3 | 100,100 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 543.3 | 100,100 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 543.3 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 543.3 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 543.3 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

ISOCANDELA DIAGRAM

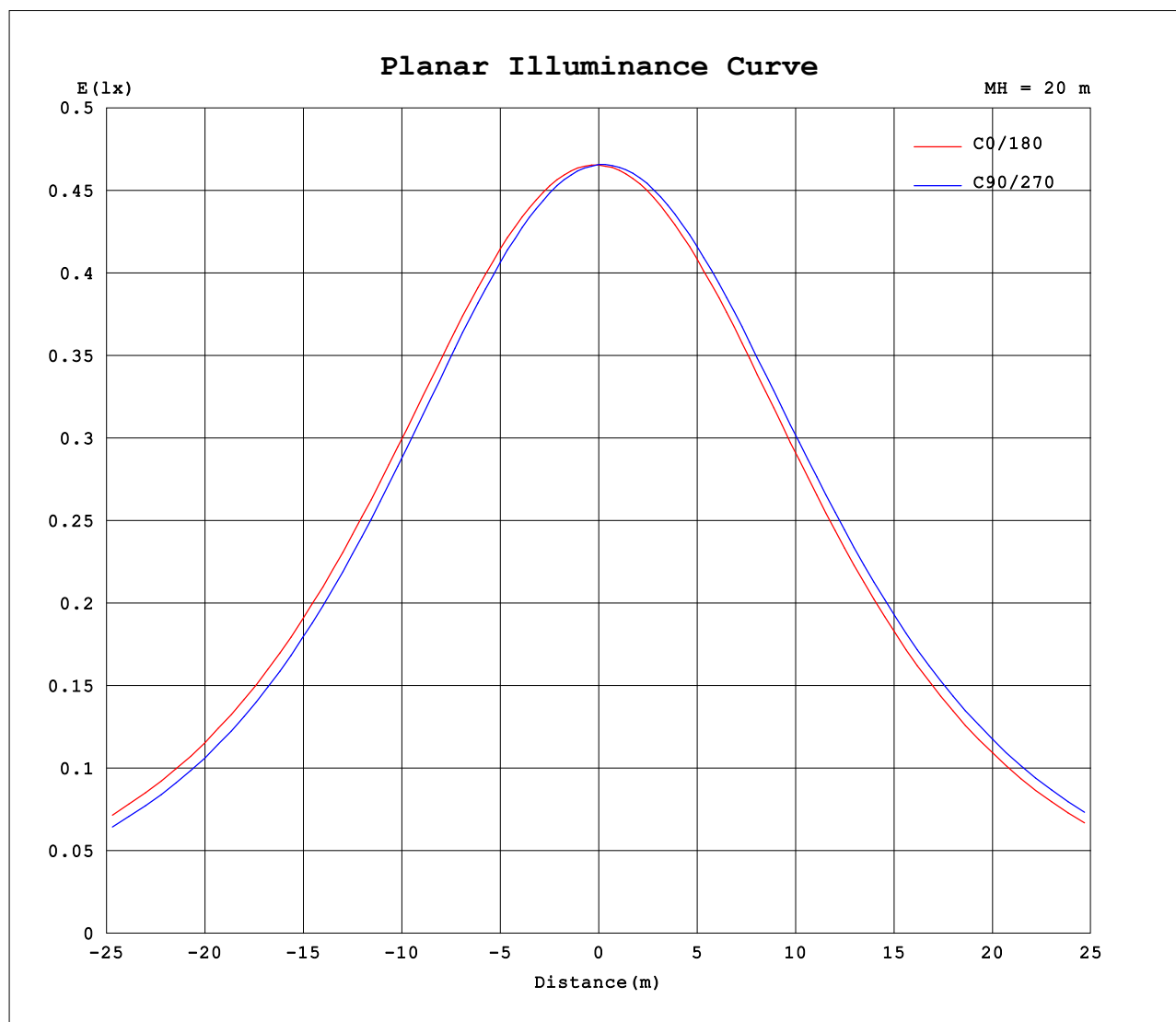
| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

Planar Illuminance Curve



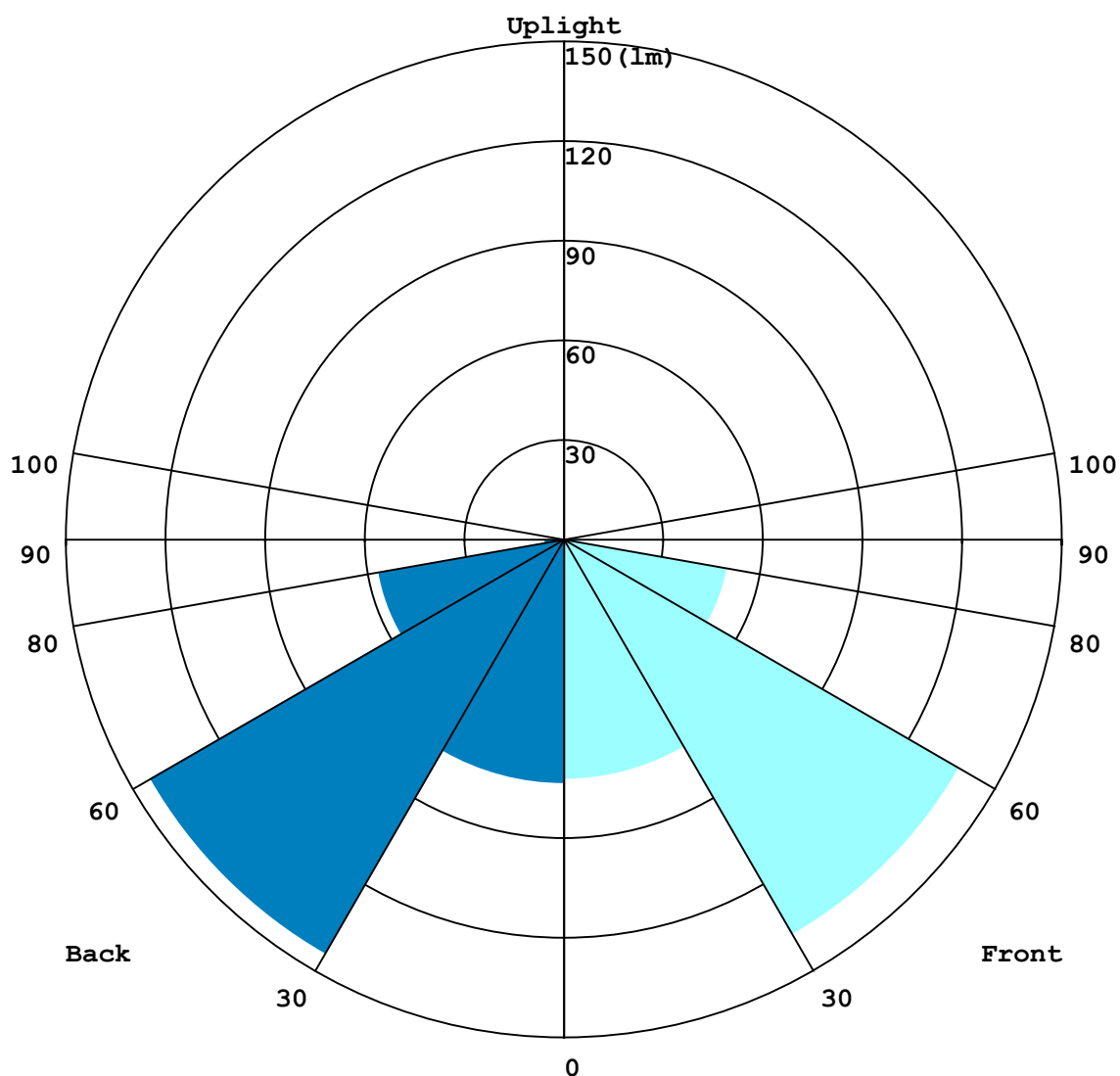
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

LCS REPORT

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

BUG REPORT

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 72.149 | 13.3 |
| FM - Front-Medium(30-60) | 137.33 | 25.3 |
| FH - Front-High(60-80) | 49.811 | 9.2 |
| FVH - Front-Very High(80-90) | 4.0194 | 0.7 |
| Total Forward Light | 263.31 | 48.5 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 73.329 | 13.5 |
| BM - Back-Medium(30-60) | 143.93 | 26.5 |
| BH - Back-High(60-80) | 56.828 | 10.5 |
| BVH - Back-Very High(80-90) | 5.8925 | 1.1 |
| Total Back Light | 279.98 | 51.5 |

| | | |
|----------------------------|------------|-----|
| UL - Uplight-Low(90-100) | 0.00012705 | 0.0 |
| UH - Uplight-High(100-180) | 0 | 0.0 |
| Total Up Light | 0.00012705 | 0.0 |

| | |
|---------------------------|----------|
| BUG(Back,Up,Glare) Rating | B0-U0-G0 |
|---------------------------|----------|

| Zone | Downward Lumens | Upward Lumens | Total Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side | 279.98 | 0 | 279.98 |
| Street Side | 263.31 | 0.00012705 | 263.31 |

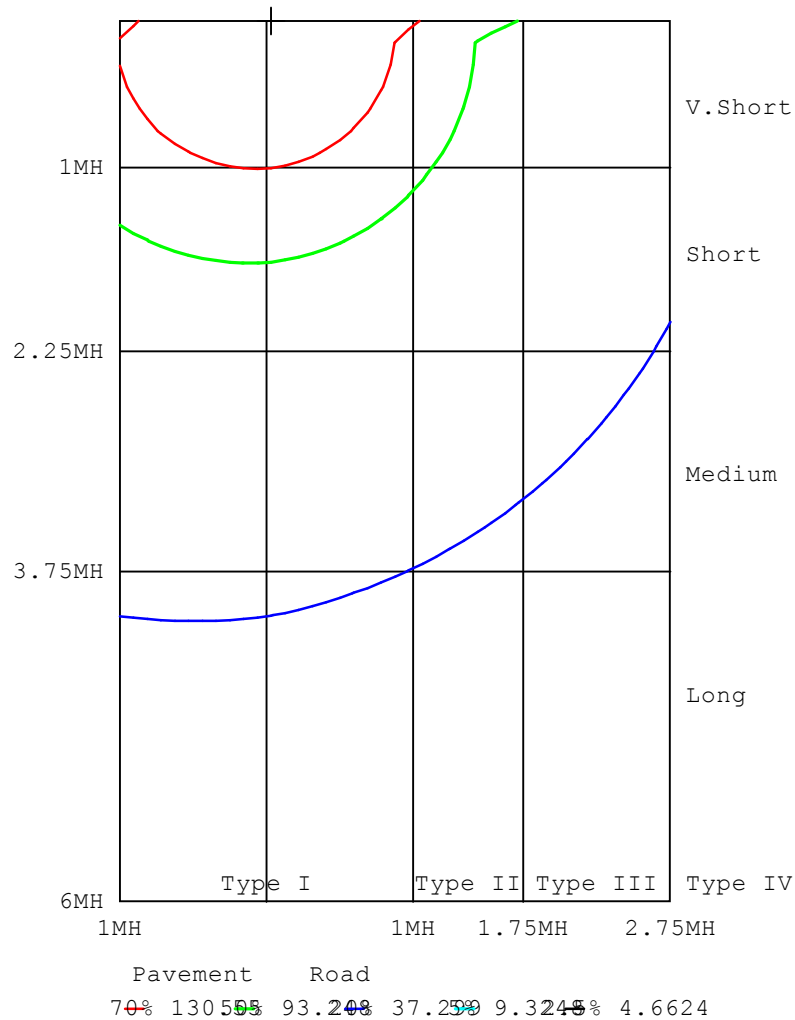
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2021-06-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

ROAD ISOCANDELA REPORT

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2021-06-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4148PRO(1000mm)
DC12V-2835-60P-2700K

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|------------------|-------|------------------|
| NAME: EKF4148PRO | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EKF4148PRO | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | | | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| 0 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | | | | | | | | | | |
| 5 | 186 | 185 | 185 | 185 | 185 | 186 | 186 | 186 | | | | | | | | | | |
| 10 | 184 | 183 | 182 | 181 | 182 | 184 | 185 | 185 | | | | | | | | | | |
| 15 | 181 | 179 | 177 | 177 | 178 | 180 | 182 | 182 | | | | | | | | | | |
| 20 | 176 | 173 | 171 | 171 | 173 | 175 | 177 | 177 | | | | | | | | | | |
| 25 | 170 | 166 | 163 | 163 | 166 | 169 | 171 | 172 | | | | | | | | | | |
| 30 | 162 | 158 | 154 | 154 | 157 | 161 | 164 | 164 | | | | | | | | | | |
| 35 | 153 | 149 | 144 | 144 | 147 | 151 | 155 | 156 | | | | | | | | | | |
| 40 | 143 | 138 | 133 | 133 | 136 | 141 | 145 | 146 | | | | | | | | | | |
| 45 | 131 | 126 | 121 | 120 | 124 | 129 | 133 | 134 | | | | | | | | | | |
| 50 | 118 | 112 | 107 | 107 | 111 | 116 | 121 | 122 | | | | | | | | | | |
| 55 | 104 | 98.1 | 92.4 | 92.1 | 96.1 | 102 | 107 | 108 | | | | | | | | | | |
| 60 | 89.4 | 82.9 | 76.9 | 76.4 | 80.7 | 86.6 | 92.2 | 93.4 | | | | | | | | | | |
| 65 | 73.7 | 66.9 | 60.8 | 60.2 | 64.6 | 70.8 | 76.6 | 77.8 | | | | | | | | | | |
| 70 | 57.4 | 50.5 | 44.3 | 43.6 | 48.1 | 54.4 | 60.2 | 61.5 | | | | | | | | | | |
| 75 | 41.0 | 34.5 | 28.4 | 27.7 | 32.2 | 38.1 | 43.6 | 45.0 | | | | | | | | | | |
| 80 | 25.8 | 20.1 | 14.6 | 13.8 | 18.2 | 23.2 | 27.7 | 29.0 | | | | | | | | | | |
| 85 | 12.8 | 8.71 | 0.46 | 4.44 | 7.63 | 11.1 | 12.3 | 15.0 | | | | | | | | | | |
| 90 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC01
 Test Date: 2021-06-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.702m [K=1.0000]
 Remarks: EKF4148PRO(1000mm)
 DC12V-2835-60P-2700K