**FEATURES**

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.
- Long-life LEDs provide up to 372,000 hours of operation with at least 70% of initial lumen output ($L_{70}$)."*
- Available models provide from 9,816 to 17,863 lumens, and from 117 to 129 lumens per watt (LPW).`
- IES roadway photometric distributions include types III & V.
- Universal 120-277 AC voltage (50-60Hz) is standard. Universal 347-480V AC voltage (50-60Hz) – 140W model only.
- 0-10vdc dimming capability is standard.
- Power factor > 90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full & half) & wire guards are available.
- Optional factory NEMA photocell receptacle installation.
- Die cast aluminum housing with durable, dark bronze powder coat finish.
- Driver enclosure is sealed with a water-tight, silicon rubber gasket.
- Easy installation in new construction or retrofit applications.

---

**WARRANTY & LISTINGS**

- cULus listed for wet locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- IP66 rated for ingress protection.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Rated for 3G vibration.
- Lens is IK 9 rated for protection from external impacts.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (6kV).
- 5-year warranty of all electronics and housing.

---

**ORDERING INFORMATION**

Example: NHL-MMFL2-80W-40K-T3-UNV-PC

<table>
<thead>
<tr>
<th>Series/Wattage</th>
<th>Color Temperature</th>
<th>Distribution</th>
<th>Voltage 1</th>
<th>Mounting Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>NM-MFL2-80W</td>
<td>40K</td>
<td>T2 Type II</td>
<td>480V</td>
<td>Yoke Bracket, 80-140W</td>
</tr>
<tr>
<td>NM-MFL2-100W</td>
<td>50K</td>
<td>T3 Type III</td>
<td>347-480V</td>
<td>Trunnion Bracket, 80-300W</td>
</tr>
<tr>
<td>NM-MFL2-140W</td>
<td>5000k</td>
<td>T4 Type IV</td>
<td>UNV</td>
<td>Arm Bracket, 80-300W Slip-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T5 Type V</td>
<td>120-277V</td>
<td>Fitter Bracket, 80-300W</td>
</tr>
</tbody>
</table>

1 347-480V available for 140W model only.
2 Ships with shorting cap.

---

New Horizon Lighting
P 732.833.8086 | F 732.833.8085
9 Gladney Avenue
Bayville, New Jersey 08721

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## ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Color Temp</th>
<th>CRI</th>
<th>Luminaire Temp</th>
<th>Luminaire Watts</th>
<th>Lumens</th>
<th>Input Watts</th>
<th>Input Voltage 2</th>
<th>Input Current (A)</th>
<th>Power Factor</th>
<th>THD 3</th>
<th>L70 Hours 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHL-MMFL2-80W-40K-T3</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>10,439</td>
<td>83</td>
<td>126</td>
<td>120-277</td>
<td>0.69</td>
<td>0.35</td>
<td>0.30</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-80W-50K-T3</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>10,613</td>
<td>83</td>
<td>129</td>
<td>120-277</td>
<td>0.69</td>
<td>0.35</td>
<td>0.30</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-80W-40K-T5</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>9,816</td>
<td>80</td>
<td>122</td>
<td>120-277</td>
<td>0.67</td>
<td>0.33</td>
<td>0.29</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-80W-50K-T5</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>10,008</td>
<td>80</td>
<td>125</td>
<td>120-277</td>
<td>0.67</td>
<td>0.33</td>
<td>0.29</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-100W-40K-T3</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>12,521</td>
<td>102</td>
<td>123</td>
<td>120-277</td>
<td>0.85</td>
<td>0.43</td>
<td>0.37</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-100W-50K-T3</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>12,673</td>
<td>102</td>
<td>124</td>
<td>120-277</td>
<td>0.85</td>
<td>0.43</td>
<td>0.37</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-100W-40K-T5</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>11,834</td>
<td>100</td>
<td>119</td>
<td>120-277</td>
<td>0.83</td>
<td>0.42</td>
<td>0.36</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-100W-50K-T5</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>12,084</td>
<td>100</td>
<td>121</td>
<td>120-277</td>
<td>0.83</td>
<td>0.42</td>
<td>0.36</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-40K-T3</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>17,176</td>
<td>139</td>
<td>123</td>
<td>120-277</td>
<td>1.16</td>
<td>0.58</td>
<td>0.50</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-50K-T3</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>17,338</td>
<td>139</td>
<td>124</td>
<td>120-277</td>
<td>1.16</td>
<td>0.58</td>
<td>0.50</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-40K-T5</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>16,438</td>
<td>140</td>
<td>117</td>
<td>120-277</td>
<td>1.17</td>
<td>0.58</td>
<td>0.51</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-50K-T5</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>16,687</td>
<td>141</td>
<td>119</td>
<td>120-277</td>
<td>1.18</td>
<td>0.59</td>
<td>0.51</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-40K-T3-480V</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>17,417</td>
<td>140</td>
<td>125</td>
<td>347-480</td>
<td>N/A</td>
<td>0.40</td>
<td>0.29</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-50K-T3-480V</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>17,863</td>
<td>140</td>
<td>128</td>
<td>347-480</td>
<td>N/A</td>
<td>0.40</td>
<td>0.29</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-40K-T5-480V</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>17,040</td>
<td>140</td>
<td>122</td>
<td>347-480</td>
<td>N/A</td>
<td>0.40</td>
<td>0.29</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>NHL-MMFL2-140W-50K-T5-480V</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>17,485</td>
<td>140</td>
<td>125</td>
<td>347-480</td>
<td>N/A</td>
<td>0.40</td>
<td>0.29</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
</tbody>
</table>

1 Color rendering index.
2 All 50-60Hz.
3 Total harmonic distortion.
4 L70 refers to the number of hours at which lumen output declines to 70% of the initial level. L70 hours are IES TM-21-11 calculated hours.

## DIMENSIONS

![Dimensions Diagram](image)

- **Effective Projected Areas (EPA's)**
  - **80W, 100W, 140W**
    - Front = 0.24 square feet
    - Side = 0.29 square feet
    - Face = 1.10 square feet

## EFFECTIVE PROJECTED AREAS (EPA's)

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>80W</td>
<td>120-277V</td>
<td>8.4 lbs.</td>
</tr>
<tr>
<td>100W</td>
<td>120-277V</td>
<td>8.6 lbs.</td>
</tr>
<tr>
<td>140W</td>
<td>120-277V</td>
<td>8.8 lbs.</td>
</tr>
<tr>
<td>140W</td>
<td>347-480V</td>
<td>9.3 lbs.</td>
</tr>
</tbody>
</table>

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MOUNTING ACCESSORIES

Yoke Mount
NHL-YM

Trunnion Mount
NHL-TM

Adjustable Arm Mount
NHL-AM

Slip-Fitter Mount
NHL-SF

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SHIELDS, WIRE GUARDS & NEMA PHOTOCELL INSTALLATION

Full Shield

Half Shield

Wire Guard
Can be used in conjunction with shields

Optional NEMA Photocell Receptacle

NHL-MMFL2-80-140W 80-140 Watt, Premium Multi-Purpose LED Area uminaire

Accessories
(Order Separately)

| NHL-MMFL2-FGS | Full Glare Shield, 80-140W |
| NHL-MMFL2-HGS | Half Glare Shield, 80-140W |
| NHL-MMFL2-WG  | Wire Guard, 80-140W       |

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## Photometric Data – IES Roadway Distributions

### NHL-MMFL2-80W-40K-T3 (10,439 Lumens, Type III Distribution)

**Foot Candles**
- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

**Luminaire Orientation:**

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

### NHL-MMFL2-80W-40K-T5 (9,816 Lumens, Type V Distribution)

**Foot Candles**
- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

**Luminaire Orientation:**

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

### NHL-MMFL2-100W-40K-T3 (12,521 Lumens, Type III Distribution)

**Foot Candles**
- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

**Luminaire Orientation:**

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

---

**New Horizon Lighting**

**Phone:**
- 732.833.8086
- 732.833.8085

**Address:**
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Bayville, New Jersey 08721

**Website:**
[www.newhorizonlighting.com](http://www.newhorizonlighting.com)

---

NHL-MMFL2-80-140W 80-140 Watt, Premium Multi-Purpose LED Area Luminaire

**Note:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

** BUG Rating: B2-U0-G2 **

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>1,196</td>
<td>11%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>3,384</td>
<td>32%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>1,952</td>
<td>19%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>136</td>
<td>1%</td>
</tr>
</tbody>
</table>

**Total Forward Light**
- 6,668

| BL - Back - Low (0-30) | 913  | 9%  |
| BM - Back - Medium (30-60) | 1,801 | 17% |
| BH - Back - High (60-80) | 990  | 9%  |
| BVH - Back - Very High (80-90) | 67   | 1%  |

**Total Back Light**
- 3,771

| UL - Up Light - Low (90-100) | 0    | 0%  |
| UH - Up Light - High (100-180) | 0    | 0%  |

**Total Up Light**
- 0

**Total Lumens**
- 10,439

---

** BUG Rating: B3-U0-G3 **

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>456</td>
<td>5%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>1,929</td>
<td>20%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>2,319</td>
<td>24%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>266</td>
<td>3%</td>
</tr>
</tbody>
</table>

**Total Forward Light**
- 4,970

| BL - Back - Low (0-30) | 449  | 5%  |
| BM - Back - Medium (30-60) | 1,852 | 19% |
| BH - Back - High (60-80) | 2,250 | 23% |
| BVH - Back - Very High (80-90) | 295  | 3%  |

**Total Back Light**
- 4,846

| UL - Up Light - Low (90-100) | 0    | 0%  |
| UH - Up Light - High (100-180) | 0    | 0%  |

**Total Up Light**
- 0

**Total Lumens**
- 9,816

---

** BUG Rating: B3-U0-G3 **

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>1,426</td>
<td>11%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>4,051</td>
<td>32%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>2,347</td>
<td>19%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>161</td>
<td>1%</td>
</tr>
</tbody>
</table>

**Total Forward Light**
- 7,984

| BL - Back - Low (0-30) | 1,101 | 9%  |
| BM - Back - Medium (30-60) | 2,181 | 17% |
| BH - Back - High (60-80) | 1,175 | 9%  |
| BVH - Back - Very High (80-90) | 80   | 1%  |

**Total Back Light**
- 4,537

| UL - Up Light - Low (90-100) | 0    | 0%  |
| UH - Up Light - High (100-180) | 0    | 0%  |

**Total Up Light**
- 0

**Total Lumens**
- 12,521

---

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PHOTOMETRIC DATA – IES Roadway Distributions

NHL-MMFL2-100W-40K-T5 (11,834 Lumens, Type V Distribution)

Notes:
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

NHL-MMFL2-140W-40K-T3 (17,176 Lumens, Type III Distribution)

Notes:
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

NHL-MMFL2-140W-40K-T5 (16,438 Lumens, Type V Distribution)

Notes:
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

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**PHOTOMETRIC DATA – IES Roadway Distributions**

**NHL-MMFL2-140W-40K-T3-480V (17,417 Lumens, Type III Distribution)**

- **Zone**
  - **FL** - Front - Low (0-30)
  - **FM** - Front - Medium (30-60)
  - **FH** - Front - High (60-80)
  - **FVH** - Front - Very High (80-90)
- **Total Forward Light** 11,176 64%

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

**NHL-MMFL2-140W-40K-T5-480V (17,040 Lumens, Type V Distribution)**

- **Zone**
  - **FL** - Front - Low (0-30)
  - **FM** - Front - Medium (30-60)
  - **FH** - Front - High (60-80)
  - **FVH** - Front - Very High (80-90)
- **Total Forward Light** 8,317 49%

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

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