

Boyd Lighting  
Loop  
Photometry Results  
5/29/2022

# Loop – General Simulation Setup

## Luminaire

C-10730 Loop Pendant 60in

## Lamp

MetroSpec, Nichia NF2W757GT-MT-2700K (96 LEDs)

153lm/W, 5508 total initial lumens

36 input watts

## Materials

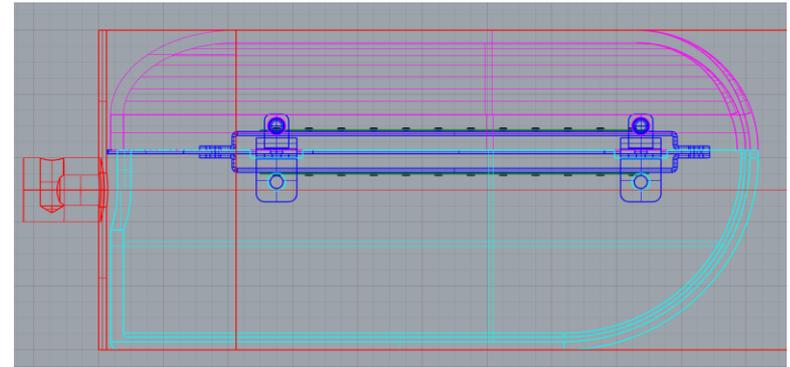
Housing/endcaps – brass (37% reflectance)

Internal brackets – white paint (86% reflectance)

PCB – white PCB (76% reflectance)

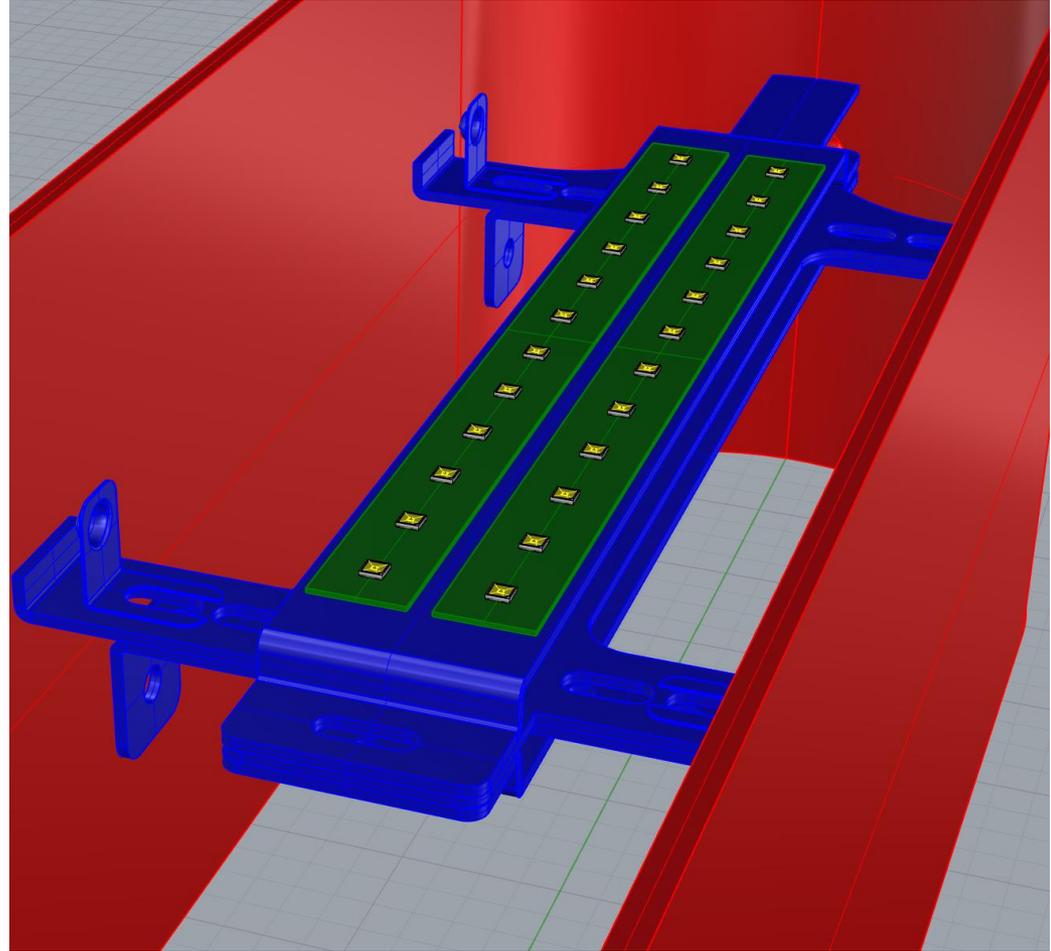
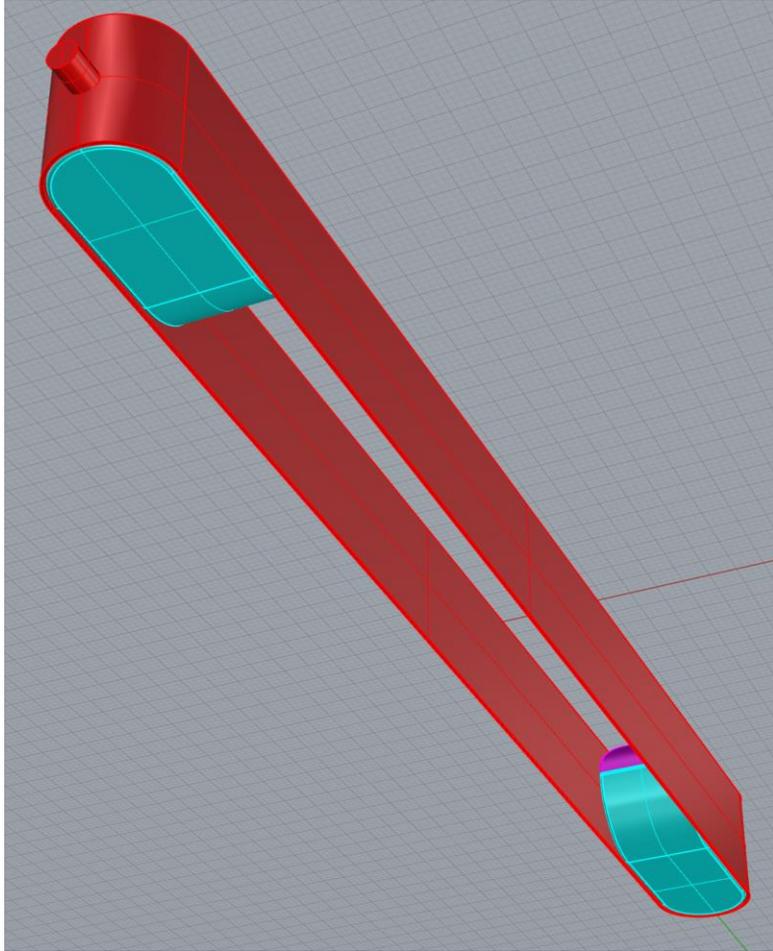
Lens – Rotuba Opal white (40% transmissive)

*Note – stem mounts and ceiling plate were not included with photometry per industry standards*

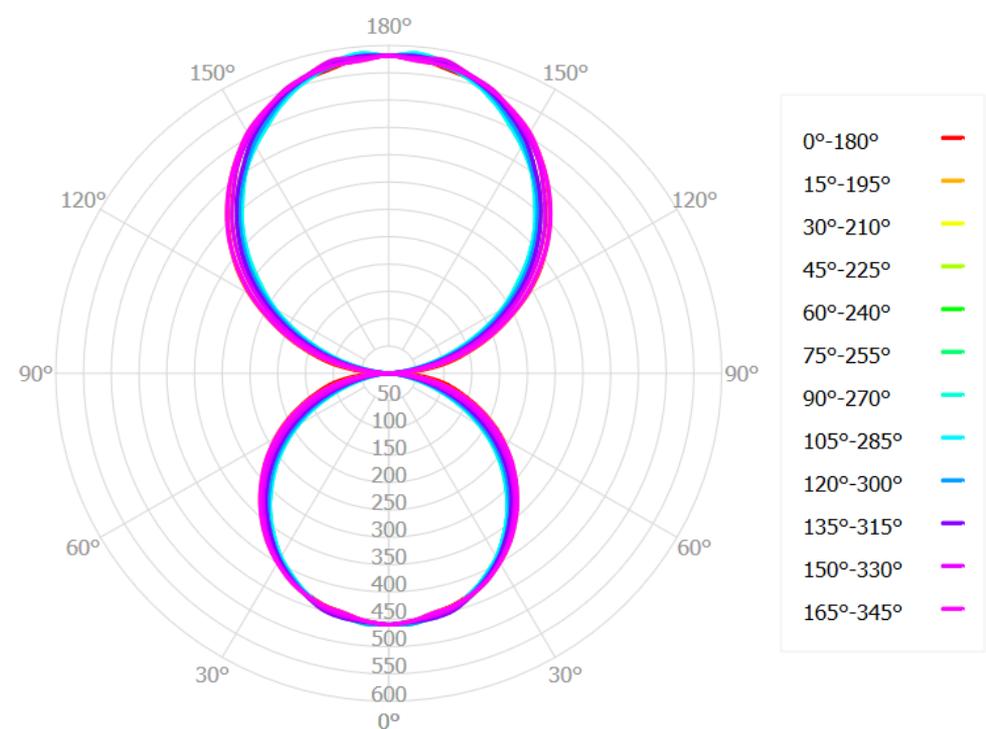


**Side View (zoomed in on one end)**

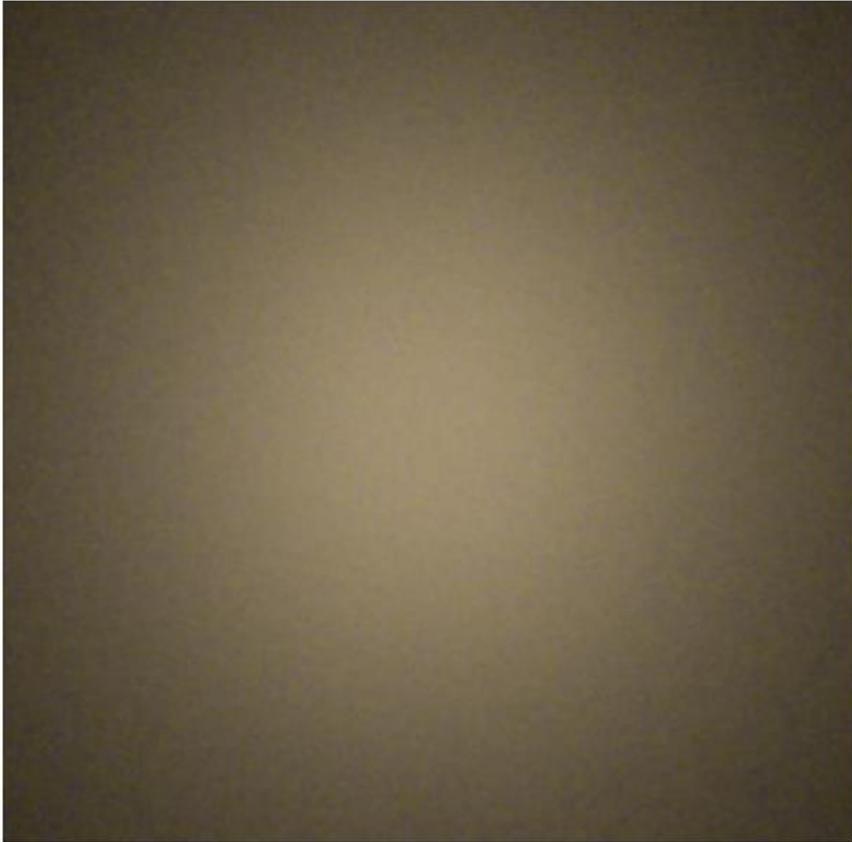
# CAD Views



# Photometric Results

<b>Input Lumens</b>	5508lm
<b>Output Lumens</b>	3014lm
<b>Optical Efficiency</b>	54.72%
<b>Efficacy</b>	83.7lm/W
<b>Candela Polar Plot</b>	 <p>The Candela Polar Plot displays the light distribution of the fixture. The plot is circular with concentric rings representing candela values from 50 to 600. Radial lines indicate beam angles from 0° to 180°. The light distribution is concentrated in two main lobes, one pointing upwards (towards 180°) and one pointing downwards (towards 0°). The legend on the right lists 15 beam angle ranges, each associated with a specific color used in the plot's data series.</p> <ul style="list-style-type: none"><li>0°-180°</li><li>15°-195°</li><li>30°-210°</li><li>45°-225°</li><li>60°-240°</li><li>75°-255°</li><li>90°-270°</li><li>105°-285°</li><li>120°-300°</li><li>135°-315°</li><li>150°-330°</li><li>165°-345°</li></ul>

# Illuminance Plane



*20' x 20', 8' below luminaire*



*20' x 20', 2' above luminaire*