

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P393751

Luminaire Tested: **NFFLD-C40-D-UNV-66-7050-TS2**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130629)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/31/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C40-D-UNV-66-7050-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

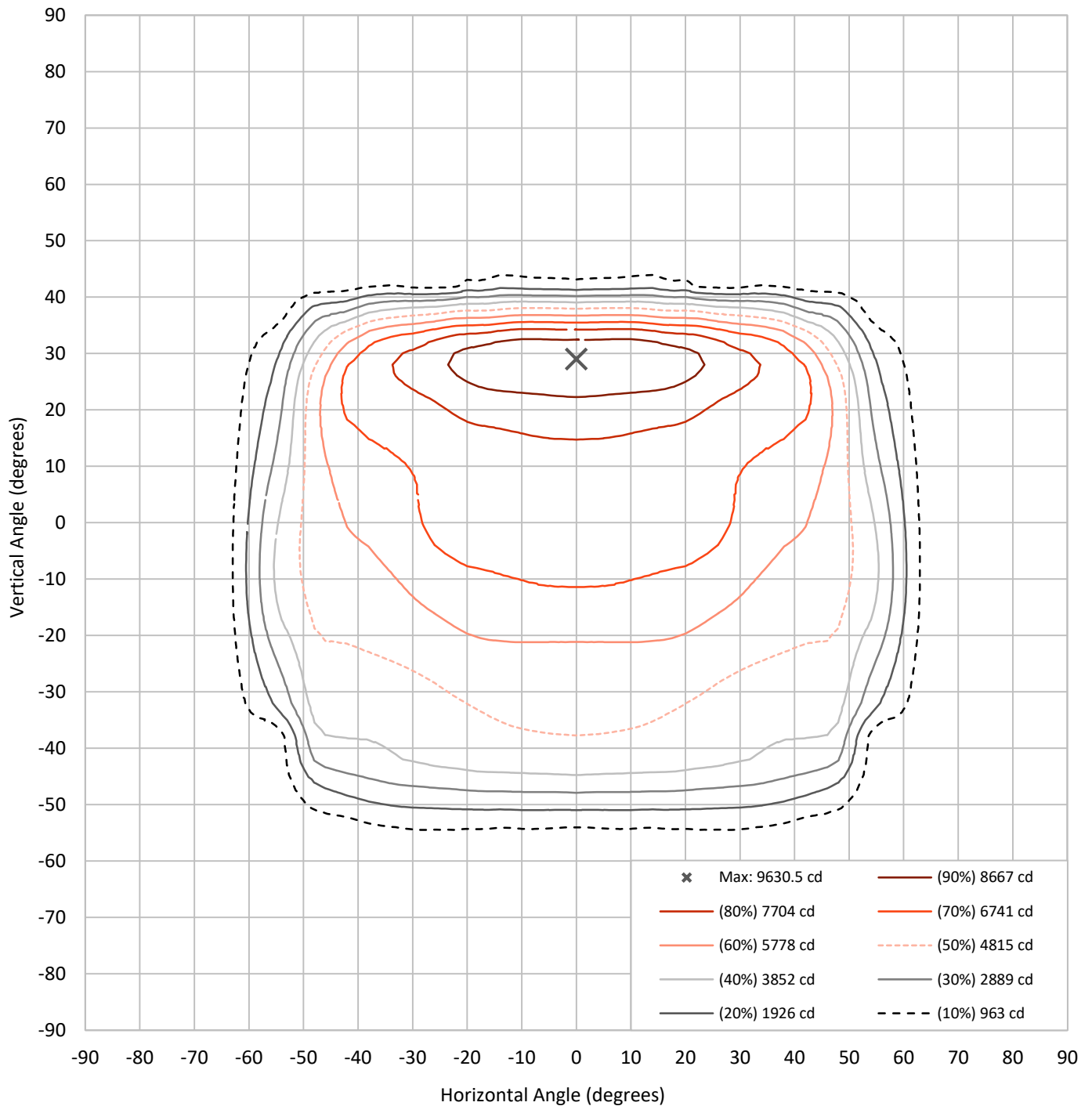
|                                   |                                  |                      |                  |
|-----------------------------------|----------------------------------|----------------------|------------------|
| Lumens per Lamp:                  | N/A                              | NEMA Type:           | 6H x 5V          |
| Luminaire Lumens:                 | 15692 lumens                     | Max Intensity:       | 9630.5 candela   |
| Efficiency:                       | N/A                              | Max Intensity Angle: | 0°H x 29°V       |
| Efficacy:                         | 123.0 lumens/watt                |                      |                  |
| Luminous Opening:                 | (L: 1.33 ' x W: 0 ' x H: 0.67 ') |                      |                  |
| Beam Angle (50%):                 | 94.6°H x 75.7°V                  | Field Angle (10%):   | 119.6°H x 96.4°V |
| Beam Lumens:                      | 11595.1 lumens                   | Field Lumens:        | 15286.6 lumens   |
| Beam Efficiency:                  | 73.9%                            | Field Efficiency:    | 97.4%            |
| Input Watts (W):                  | 127.6                            |                      |                  |
| Input Voltage (V):                | NR                               |                      |                  |
| Input Current (Ain):              | NR                               |                      |                  |
| Voltage Rise (V):                 | NR                               |                      |                  |
| Power Factor:                     | NR                               |                      |                  |
| Total Harmonic Distortion (THDi): | NR                               |                      |                  |
| Frequency (hertz):                | 60                               |                      |                  |
| Stabilization Time:               | NR                               |                      |                  |
| Operation Time:                   | NR                               |                      |                  |
| Ambient Temperature (°C):         | NR                               |                      |                  |
| Test Distance:                    | 25 FT                            |                      |                  |



REPORT NUMBER: P393751

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-TS2

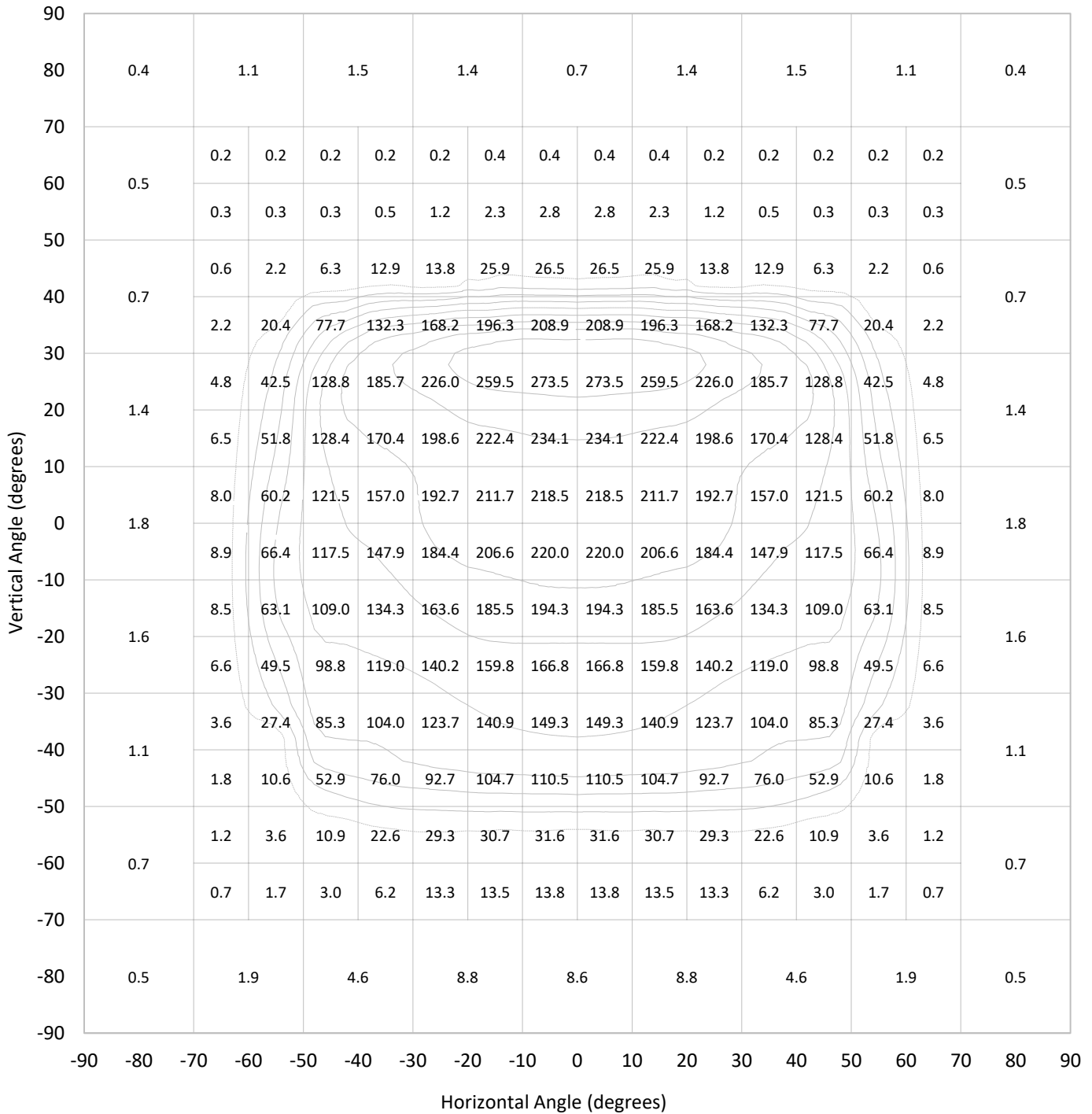
### Iso-Candela Plot





REPORT NUMBER: P393751  
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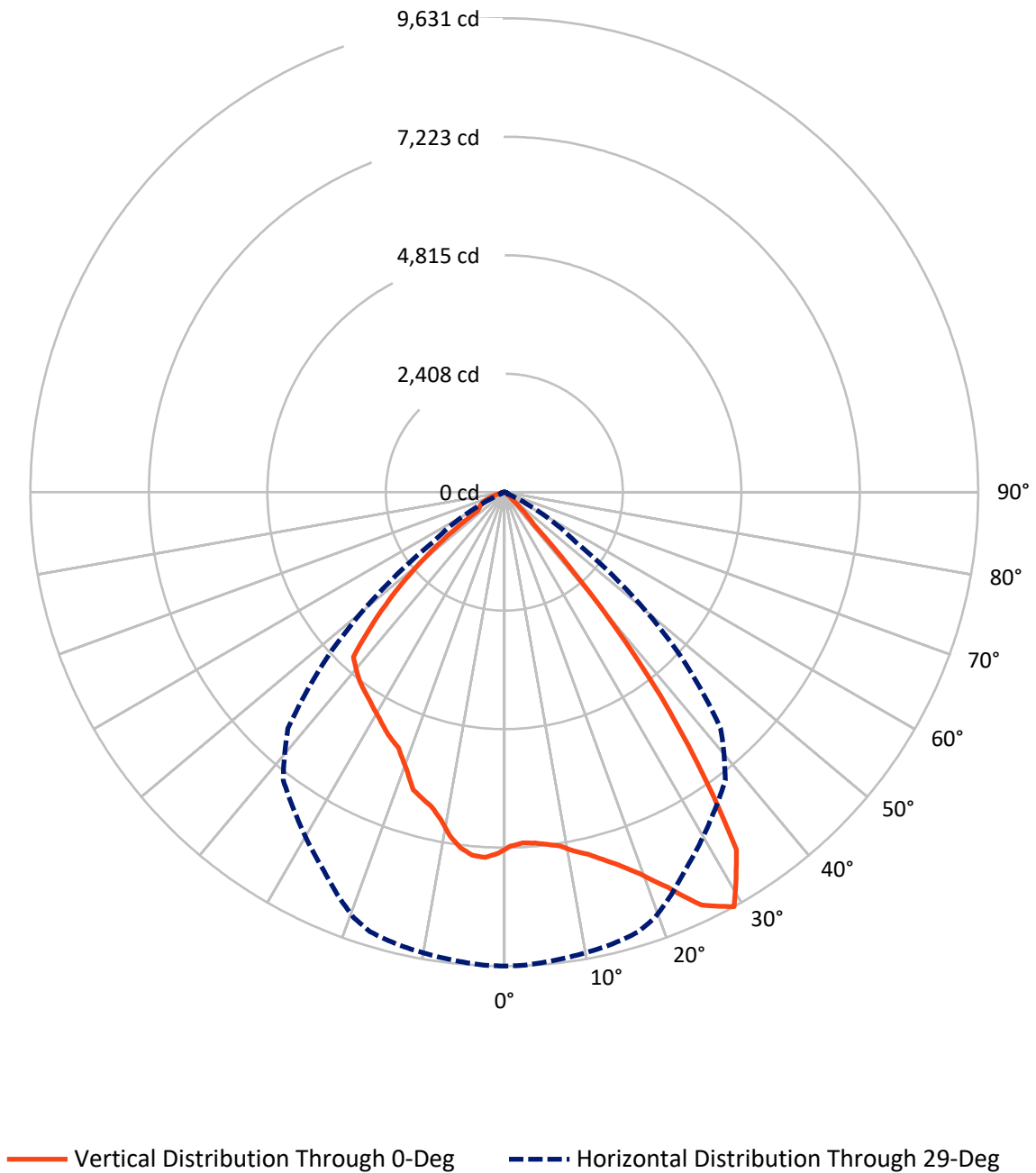
### Lumen Table



REPORT NUMBER: P393751

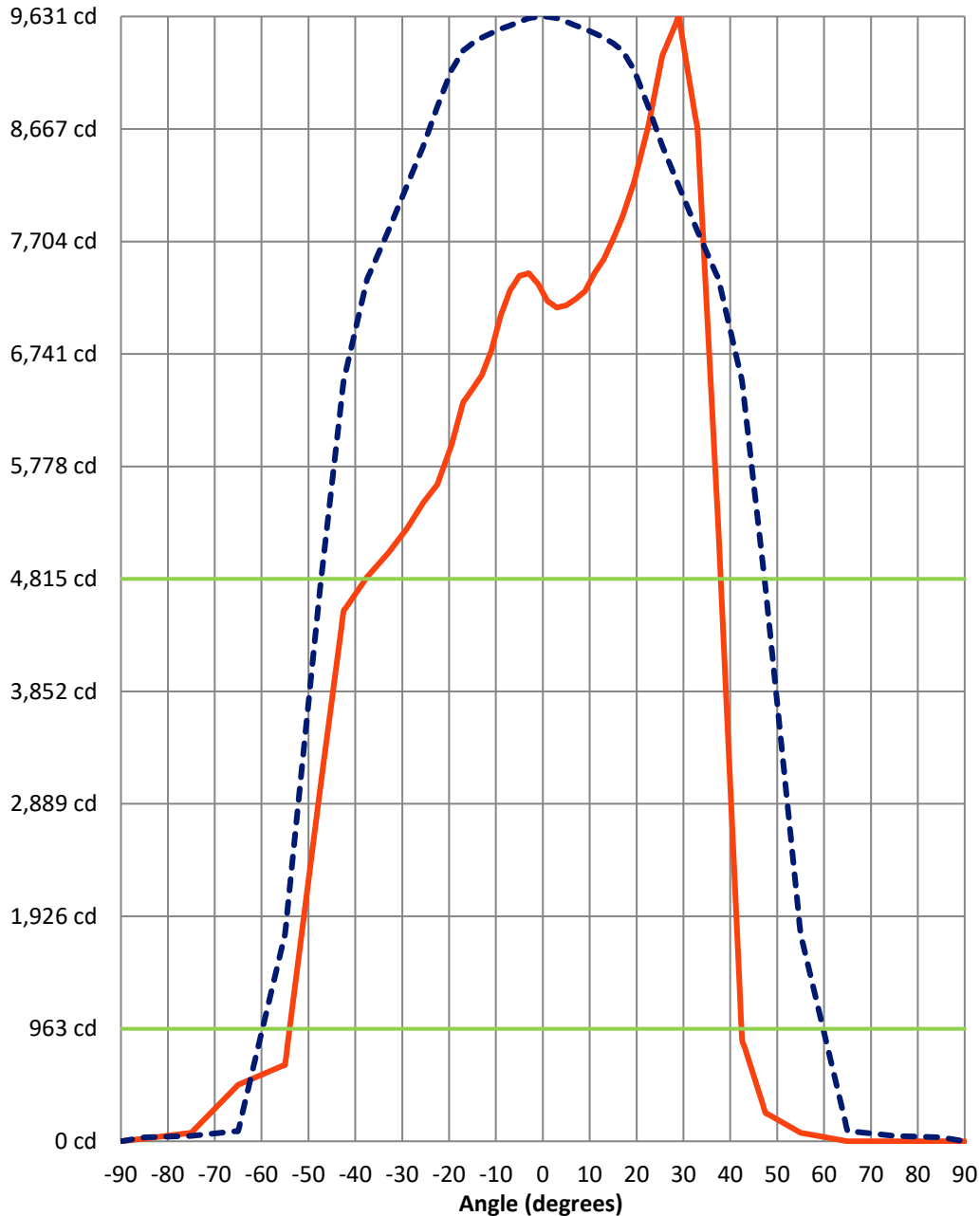
CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-TS2

### Luminous Intensity Polar Plot



REPORT NUMBER: P393751  
 CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-TS2

### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 11595.1  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 15286.6  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 405.3  
 Efficiency: 2.6%

— Vertical Distribution through 0-Deg  
 - - - Horizontal Distribution through 29-Deg



REPORT NUMBER: P393751

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-TS2

FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

|        | 0°     | 1°     | 3°     | 5°     | 7°     | 9°     | 11°    | 13°    | 15°    | 17°    | 19.5°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 3.6    | 8.6    | 8.6    | 9.7    | 12.2   | 15.9   | 18.2   | 20.6   | 21.7   | 23.2   |
| 75°    | 0.0    | 1.3    | 3.6    | 6.0    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    |
| 65°    | 0.0    | 0.0    | 2.6    | 3.6    | 4.7    | 4.7    | 6.0    | 6.0    | 6.0    | 6.0    | 4.7    |
| 55°    | 72.9   | 70.4   | 72.9   | 72.9   | 72.9   | 71.6   | 66.9   | 60.7   | 57.1   | 58.3   | 53.4   |
| 47.5°  | 244.1  | 245.4  | 243.0  | 238.1  | 235.7  | 233.2  | 228.2  | 223.5  | 212.6  | 207.8  | 204.0  |
| 42.5°  | 875.7  | 960.7  | 940.3  | 1015.4 | 987.5  | 1057.8 | 1161.2 | 1246.3 | 1251.1 | 685.1  | 1019.0 |
| 37.5°  | 5205.9 | 5226.5 | 5243.4 | 5291.9 | 5270.2 | 5295.7 | 5244.7 | 5139.0 | 4977.5 | 4911.8 | 4943.6 |
| 33°    | 8656.5 | 8617.6 | 8634.6 | 8689.5 | 8724.5 | 8765.8 | 8705.1 | 8595.8 | 8394.2 | 8253.2 | 8186.5 |
| 29°    | 9630.5 | 9628.1 | 9616.1 | 9585.6 | 9553.0 | 9523.8 | 9487.4 | 9449.6 | 9400.9 | 9337.9 | 9170.3 |
| 25.5°  | 9295.4 | 9279.5 | 9256.6 | 9206.8 | 9181.3 | 9156.9 | 9121.7 | 9086.5 | 9033.1 | 8957.8 | 8798.7 |
| 22.5°  | 8692.9 | 8683.3 | 8670.0 | 8627.3 | 8593.4 | 8566.6 | 8531.4 | 8515.6 | 8478.0 | 8434.3 | 8323.6 |
| 19.5°  | 8218.1 | 8208.4 | 8209.5 | 8188.9 | 8165.7 | 8131.8 | 8089.2 | 8050.4 | 8018.8 | 7995.8 | 7933.7 |
| 17°    | 7916.7 | 7902.1 | 7904.7 | 7898.7 | 7875.5 | 7836.7 | 7797.7 | 7745.6 | 7703.1 | 7677.4 | 7626.7 |
| 15°    | 7725.0 | 7713.8 | 7717.7 | 7704.2 | 7678.8 | 7641.1 | 7603.4 | 7557.3 | 7513.5 | 7463.7 | 7411.6 |
| 13°    | 7552.5 | 7541.4 | 7543.9 | 7531.7 | 7506.2 | 7477.0 | 7447.9 | 7405.4 | 7372.6 | 7325.2 | 7270.7 |
| 11°    | 7430.9 | 7423.6 | 7416.3 | 7409.0 | 7386.1 | 7358.2 | 7332.5 | 7297.3 | 7269.4 | 7226.9 | 7186.8 |
| 9°     | 7279.3 | 7284.0 | 7276.7 | 7273.1 | 7256.1 | 7231.9 | 7211.1 | 7186.8 | 7169.9 | 7145.6 | 7132.1 |
| 7°     | 7211.1 | 7214.9 | 7207.6 | 7203.8 | 7191.6 | 7178.3 | 7158.9 | 7144.2 | 7144.2 | 7148.0 | 7157.9 |
| 5°     | 7157.9 | 7161.3 | 7158.9 | 7160.0 | 7161.3 | 7155.3 | 7149.1 | 7152.7 | 7175.9 | 7195.4 | 7201.2 |
| 3°     | 7138.3 | 7139.4 | 7148.0 | 7156.4 | 7168.6 | 7179.5 | 7192.9 | 7214.9 | 7242.6 | 7243.9 | 7234.2 |
| 1°     | 7194.1 | 7191.6 | 7217.1 | 7239.2 | 7260.8 | 7278.0 | 7280.4 | 7272.0 | 7273.1 | 7259.8 | 7320.5 |
| 0°     | 7265.8 | 7260.8 | 7286.6 | 7297.3 | 7319.2 | 7325.2 | 7303.5 | 7282.7 | 7265.8 | 7235.3 | 7335.0 |
| -1°    | 7339.8 | 7337.4 | 7350.9 | 7352.0 | 7362.9 | 7355.6 | 7315.5 | 7282.7 | 7247.5 | 7192.9 | 7215.8 |
| -3°    | 7432.2 | 7434.6 | 7430.9 | 7416.3 | 7414.0 | 7377.5 | 7316.8 | 7265.8 | 7205.1 | 7121.2 | 7068.9 |
| -5°    | 7409.0 | 7408.0 | 7394.6 | 7375.1 | 7348.3 | 7303.5 | 7226.9 | 7161.3 | 7083.7 | 6988.9 | 6937.8 |
| -7°    | 7284.0 | 7287.6 | 7262.1 | 7248.6 | 7190.5 | 7123.8 | 7036.1 | 6957.3 | 6890.4 | 6826.1 | 6803.1 |
| -9°    | 7067.8 | 7075.1 | 7037.5 | 7031.3 | 6947.5 | 6873.5 | 6810.4 | 6753.3 | 6718.0 | 6683.9 | 6671.9 |
| -11°   | 6769.0 | 6778.7 | 6754.4 | 6767.7 | 6713.2 | 6685.2 | 6656.0 | 6619.5 | 6591.7 | 6563.8 | 6538.2 |
| -13°   | 6561.4 | 6566.1 | 6555.2 | 6554.1 | 6532.2 | 6526.0 | 6511.4 | 6490.8 | 6469.0 | 6436.2 | 6402.1 |
| -15°   | 6441.1 | 6446.0 | 6436.2 | 6430.1 | 6417.9 | 6414.3 | 6401.0 | 6374.4 | 6345.0 | 6302.5 | 6249.1 |
| -17°   | 6325.7 | 6335.4 | 6324.6 | 6317.3 | 6305.1 | 6295.2 | 6285.6 | 6256.4 | 6217.6 | 6167.8 | 6080.3 |
| -19.5° | 5958.9 | 5973.3 | 5961.3 | 5958.9 | 5960.0 | 5966.0 | 5964.9 | 5941.8 | 5927.4 | 5901.7 | 5822.9 |
| -22.5° | 5624.8 | 5631.0 | 5628.4 | 5631.0 | 5634.6 | 5637.0 | 5634.6 | 5624.8 | 5610.4 | 5578.7 | 5497.2 |
| -25.5° | 5468.2 | 5471.8 | 5468.2 | 5469.3 | 5464.5 | 5460.9 | 5451.2 | 5432.8 | 5414.8 | 5382.0 | 5303.0 |
| -29°   | 5246.0 | 5250.7 | 5249.6 | 5248.2 | 5243.4 | 5228.8 | 5208.2 | 5182.7 | 5157.4 | 5117.1 | 5042.0 |
| -33°   | 5035.6 | 5039.4 | 5037.1 | 5028.3 | 5017.6 | 5000.6 | 4976.2 | 4942.3 | 4903.3 | 4853.5 | 4772.0 |
| -37.5° | 4831.6 | 4825.6 | 4826.9 | 4816.0 | 4803.7 | 4784.4 | 4760.0 | 4729.5 | 4683.4 | 4628.9 | 4551.1 |
| -42.5° | 4539.1 | 4513.5 | 4506.2 | 4462.5 | 4450.3 | 4400.5 | 4384.7 | 4356.8 | 4327.6 | 4333.8 | 4242.6 |
| -47.5° | 3018.2 | 2977.0 | 2990.3 | 2953.8 | 2977.0 | 2951.5 | 2974.6 | 2929.6 | 2936.9 | 2935.6 | 2895.5 |
| -55°   | 655.9  | 648.6  | 671.7  | 694.7  | 711.8  | 719.0  | 693.6  | 670.5  | 679.0  | 734.8  | 708.2  |
| -65°   | 483.4  | 482.2  | 482.2  | 479.8  | 476.1  | 473.6  | 474.9  | 477.2  | 477.2  | 484.7  | 501.7  |
| -75°   | 72.9   | 71.6   | 72.9   | 71.6   | 66.9   | 69.3   | 75.3   | 72.9   | 75.3   | 75.3   | 75.3   |
| -85°   | 23.2   | 23.2   | 21.7   | 25.5   | 26.8   | 31.5   | 36.5   | 38.8   | 41.2   | 42.7   | 42.7   |
| -90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P393751

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-TS2

**CANDELA DISTRIBUTION (continued):**

|        | 22.5°  | 25.5°  | 29°    | 33°    | 37.5°  | 42.5°  | 47.5°  | 55°    | 65°   | 75°  | 85°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  |
| 85°    | 24.2   | 24.2   | 25.5   | 25.5   | 24.2   | 24.2   | 24.2   | 24.2   | 24.2  | 25.5 | 26.8 |
| 75°    | 8.6    | 9.7    | 10.9   | 13.3   | 14.6   | 17.0   | 17.0   | 19.5   | 21.7  | 24.2 | 26.8 |
| 65°    | 4.7    | 3.6    | 3.6    | 3.6    | 4.7    | 6.0    | 9.7    | 13.3   | 18.2  | 21.7 | 25.5 |
| 55°    | 43.7   | 29.0   | 13.3   | 12.2   | 12.2   | 10.9   | 9.7    | 10.9   | 18.2  | 21.7 | 25.5 |
| 47.5°  | 167.7  | 111.7  | 68.0   | 55.8   | 51.0   | 41.2   | 37.6   | 38.8   | 32.8  | 23.2 | 26.8 |
| 42.5°  | 267.2  | 268.3  | 219.8  | 676.7  | 572.2  | 223.5  | 232.1  | 159.1  | 46.1  | 26.8 | 28.1 |
| 37.5°  | 4890.0 | 4532.9 | 4429.7 | 4169.7 | 3822.5 | 2775.4 | 2492.3 | 239.3  | 59.6  | 33.9 | 30.4 |
| 33°    | 8088.1 | 7718.8 | 7191.6 | 7075.1 | 6469.0 | 5318.7 | 3823.7 | 1332.4 | 74.0  | 40.1 | 31.5 |
| 29°    | 8858.1 | 8521.8 | 8180.3 | 7791.9 | 7378.8 | 6509.1 | 4740.7 | 1773.3 | 88.6  | 46.1 | 33.9 |
| 25.5°  | 8561.9 | 8304.3 | 8014.1 | 7686.0 | 7441.9 | 6936.6 | 5390.4 | 2090.3 | 103.2 | 54.7 | 35.4 |
| 22.5°  | 8095.4 | 7846.4 | 7613.0 | 7387.4 | 7252.5 | 6945.1 | 5644.3 | 2304.2 | 119.0 | 64.3 | 37.6 |
| 19.5°  | 7735.9 | 7502.7 | 7292.4 | 7129.8 | 7076.2 | 6807.9 | 5712.3 | 2479.0 | 133.6 | 72.9 | 38.8 |
| 17°    | 7443.1 | 7243.9 | 7091.0 | 6990.1 | 6934.2 | 6611.2 | 5706.3 | 2623.5 | 148.2 | 76.6 | 38.8 |
| 15°    | 7253.7 | 7072.5 | 6964.4 | 6900.1 | 6799.3 | 6432.7 | 5669.6 | 2751.1 | 160.4 | 80.2 | 40.1 |
| 13°    | 7139.4 | 7002.2 | 6916.0 | 6818.8 | 6629.4 | 6248.0 | 5623.7 | 2884.8 | 168.8 | 82.6 | 40.1 |
| 11°    | 7075.1 | 6967.0 | 6885.7 | 6705.8 | 6446.0 | 6117.9 | 5584.9 | 3024.4 | 173.7 | 84.9 | 41.2 |
| 9°     | 7050.8 | 6940.2 | 6805.5 | 6562.5 | 6313.5 | 6028.2 | 5549.5 | 3181.2 | 177.2 | 87.5 | 41.2 |
| 7°     | 7089.7 | 6969.4 | 6766.7 | 6481.2 | 6204.3 | 5964.9 | 5524.0 | 3337.8 | 179.7 | 89.9 | 41.2 |
| 5°     | 7123.8 | 7008.2 | 6759.2 | 6394.8 | 6109.5 | 5901.7 | 5499.7 | 3492.0 | 182.1 | 92.4 | 42.7 |
| 3°     | 7148.0 | 7030.2 | 6748.2 | 6307.5 | 6028.2 | 5842.3 | 5480.2 | 3635.3 | 183.4 | 93.5 | 42.7 |
| 1°     | 7217.1 | 7018.0 | 6713.2 | 6235.8 | 5967.3 | 5798.7 | 5459.6 | 3766.5 | 181.0 | 93.5 | 42.7 |
| 0°     | 7171.0 | 6983.9 | 6677.9 | 6205.4 | 5935.8 | 5779.2 | 5450.0 | 3823.7 | 181.0 | 92.4 | 42.7 |
| -1°    | 7077.5 | 6939.1 | 6636.7 | 6176.4 | 5907.9 | 5760.8 | 5445.0 | 3880.6 | 179.7 | 92.4 | 42.7 |
| -3°    | 6937.8 | 6829.7 | 6550.3 | 6122.8 | 5843.5 | 5709.7 | 5431.7 | 3979.1 | 178.6 | 91.1 | 41.2 |
| -5°    | 6817.7 | 6725.3 | 6458.0 | 6047.5 | 5762.0 | 5640.6 | 5396.4 | 4042.1 | 177.2 | 89.9 | 41.2 |
| -7°    | 6714.3 | 6591.7 | 6329.3 | 5943.1 | 5669.6 | 5554.4 | 5358.8 | 4081.0 | 176.1 | 88.6 | 41.2 |
| -9°    | 6583.1 | 6431.2 | 6164.2 | 5822.9 | 5567.7 | 5450.0 | 5306.7 | 4085.9 | 175.0 | 87.5 | 40.1 |
| -11°   | 6437.4 | 6266.1 | 6003.9 | 5697.7 | 5469.3 | 5350.4 | 5239.8 | 4054.3 | 173.7 | 84.9 | 38.8 |
| -13°   | 6278.3 | 6091.3 | 5850.8 | 5581.0 | 5367.4 | 5253.1 | 5168.1 | 3979.1 | 172.4 | 84.9 | 38.8 |
| -15°   | 6103.5 | 5915.2 | 5694.1 | 5469.3 | 5275.0 | 5145.2 | 5085.6 | 3866.0 | 172.4 | 83.9 | 37.6 |
| -17°   | 5915.2 | 5715.9 | 5525.3 | 5343.1 | 5168.1 | 5038.2 | 4990.8 | 3710.7 | 169.9 | 82.6 | 36.5 |
| -19.5° | 5662.5 | 5479.1 | 5324.7 | 5179.1 | 5018.7 | 4901.1 | 4865.7 | 3453.1 | 166.4 | 81.3 | 35.4 |
| -22.5° | 5340.6 | 5169.4 | 5042.9 | 4945.9 | 4840.2 | 4755.1 | 4747.8 | 3113.2 | 160.4 | 78.9 | 33.9 |
| -25.5° | 5160.9 | 5005.4 | 4884.0 | 4779.3 | 4698.0 | 4656.8 | 4643.3 | 2769.4 | 152.9 | 76.6 | 31.5 |
| -29°   | 4925.3 | 4793.0 | 4681.1 | 4571.7 | 4501.3 | 4503.9 | 4514.6 | 2369.6 | 146.9 | 71.6 | 30.4 |
| -33°   | 4664.1 | 4552.4 | 4439.3 | 4320.3 | 4245.0 | 4251.0 | 4266.9 | 1926.5 | 148.2 | 65.6 | 29.0 |
| -37.5° | 4455.2 | 4348.4 | 4213.5 | 4064.0 | 3937.7 | 3931.7 | 3878.2 | 261.0  | 151.8 | 57.1 | 28.1 |
| -42.5° | 4138.0 | 4094.4 | 3912.3 | 3783.5 | 3550.3 | 3341.4 | 3049.9 | 257.6  | 145.7 | 46.1 | 28.1 |
| -47.5° | 2826.4 | 2769.4 | 2714.7 | 2650.3 | 2435.4 | 2111.1 | 1661.6 | 241.7  | 128.7 | 35.4 | 26.8 |
| -55°   | 760.3  | 755.4  | 780.9  | 714.2  | 589.0  | 227.1  | 234.4  | 151.8  | 84.9  | 28.1 | 26.8 |
| -65°   | 536.8  | 544.1  | 427.7  | 227.1  | 159.1  | 111.7  | 159.1  | 91.1   | 46.1  | 26.8 | 26.8 |
| -75°   | 75.3   | 69.3   | 51.0   | 55.8   | 58.3   | 58.3   | 54.7   | 35.4   | 29.0  | 28.1 | 26.8 |
| -85°   | 42.7   | 42.7   | 41.2   | 40.1   | 38.8   | 36.5   | 35.4   | 32.8   | 31.5  | 29.0 | 28.1 |
| -90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0  | 0.0  |





REPORT NUMBER: P393751

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7050-TS2

**CANDELA DISTRIBUTION (continued):**

|        | 90° |
|--------|-----|
| 90°    | 0.0 |
| 85°    | 0.0 |
| 75°    | 0.0 |
| 65°    | 0.0 |
| 55°    | 0.0 |
| 47.5°  | 0.0 |
| 42.5°  | 0.0 |
| 37.5°  | 0.0 |
| 33°    | 0.0 |
| 29°    | 0.0 |
| 25.5°  | 0.0 |
| 22.5°  | 0.0 |
| 19.5°  | 0.0 |
| 17°    | 0.0 |
| 15°    | 0.0 |
| 13°    | 0.0 |
| 11°    | 0.0 |
| 9°     | 0.0 |
| 7°     | 0.0 |
| 5°     | 0.0 |
| 3°     | 0.0 |
| 1°     | 0.0 |
| 0°     | 0.0 |
| -1°    | 0.0 |
| -3°    | 0.0 |
| -5°    | 0.0 |
| -7°    | 0.0 |
| -9°    | 0.0 |
| -11°   | 0.0 |
| -13°   | 0.0 |
| -15°   | 0.0 |
| -17°   | 0.0 |
| -19.5° | 0.0 |
| -22.5° | 0.0 |
| -25.5° | 0.0 |
| -29°   | 0.0 |
| -33°   | 0.0 |
| -37.5° | 0.0 |
| -42.5° | 0.0 |
| -47.5° | 0.0 |
| -55°   | 0.0 |
| -65°   | 0.0 |
| -75°   | 0.0 |
| -85°   | 0.0 |
| -90°   | 0.0 |

(END OF REPORT)