

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: McGRAW-EDISON

Report Number: P823385

Luminaire Tested: **TTN-D2-735-U-WQ**

Issue Date: 4/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P823385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TTN-D2-735-U-WQ  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

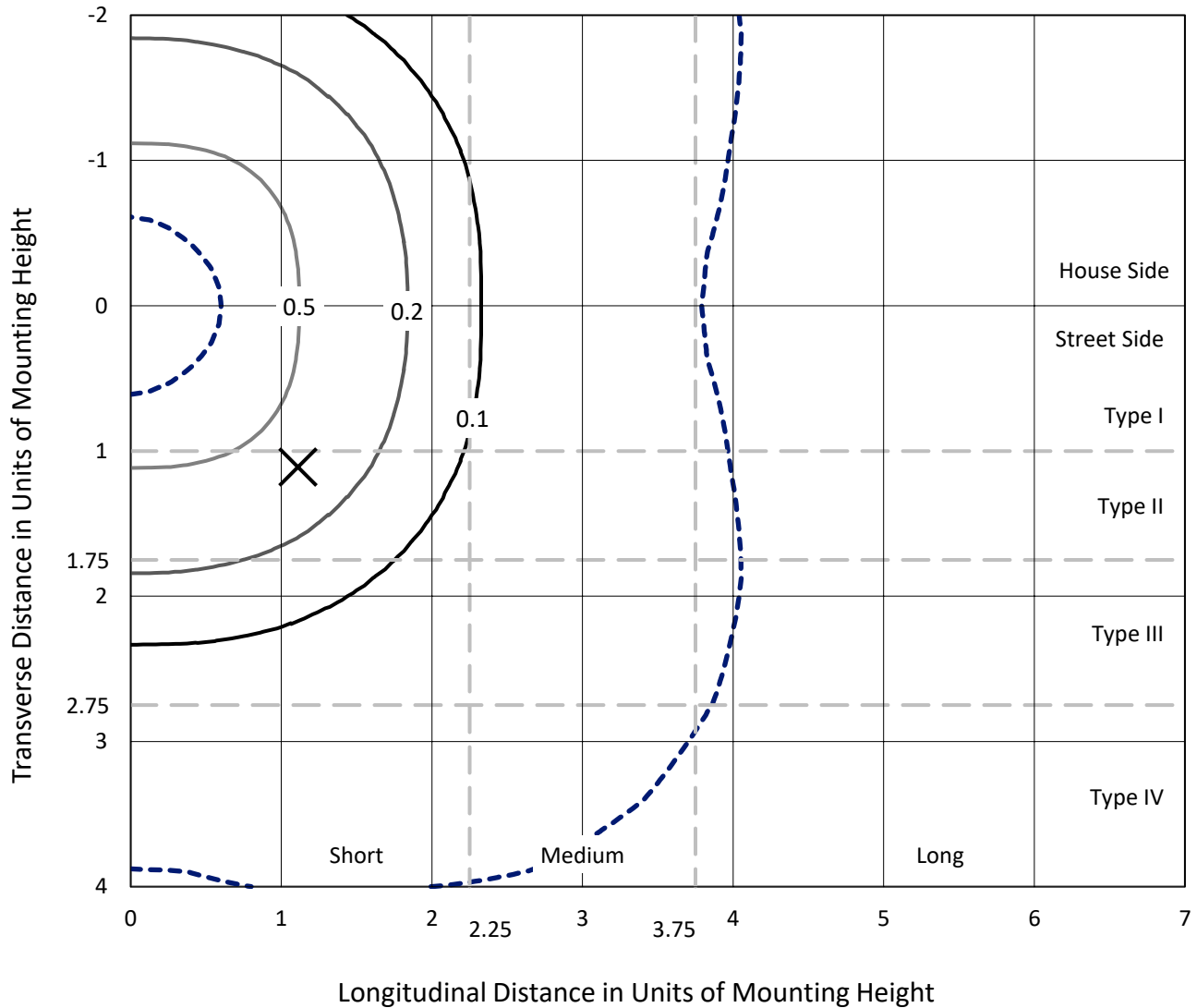
Lumens per Lamp: N/A  
Luminaire Lumens: 5011 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 42.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

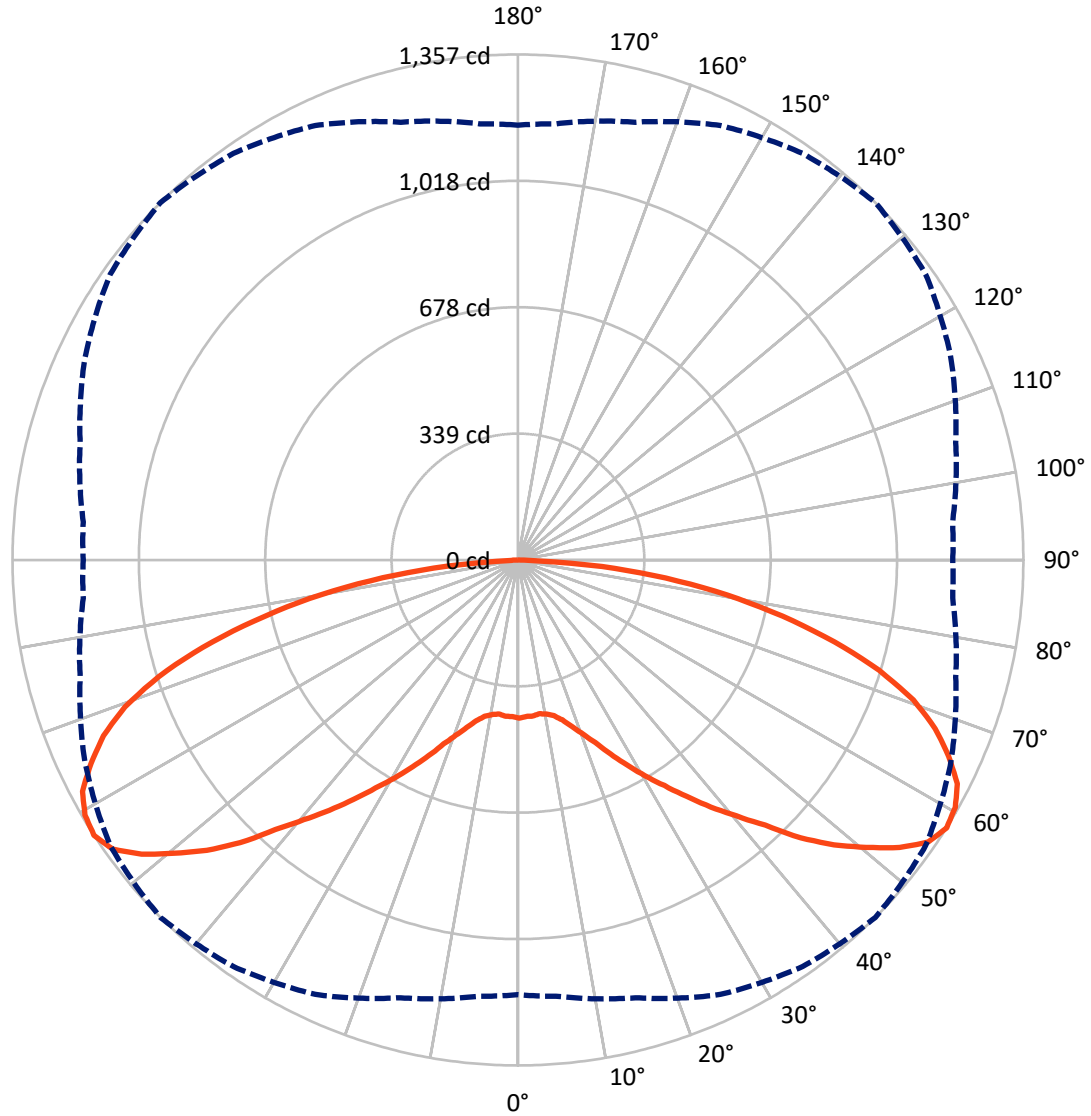
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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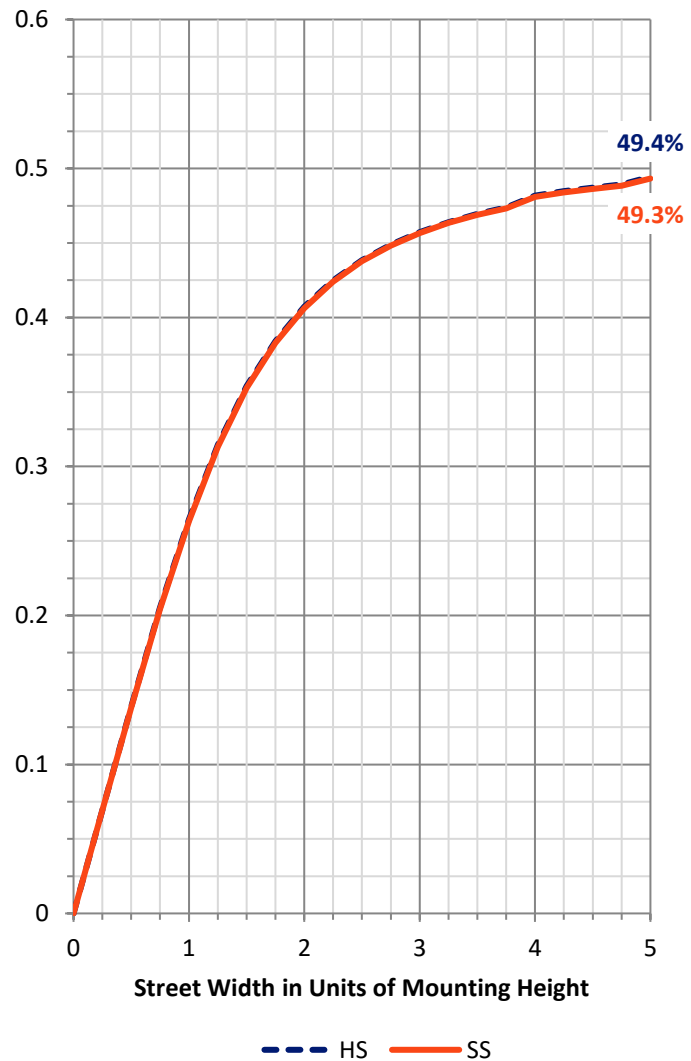
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2505.5	0.0	2505.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2505.5	0.0	2505.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5011.0	0.0	5011.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	0.8
10°-20°	127.4	2.5
20°-30°	267.3	5.3
30°-40°	485.0	9.7
40°-50°	790.6	15.8
50°-60°	1106.6	22.1
60°-70°	1155.2	23.1
70°-80°	825.4	16.5
80°-90°	213.6	4.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5011.0	100.0
0°-180°	5011.0	100.0



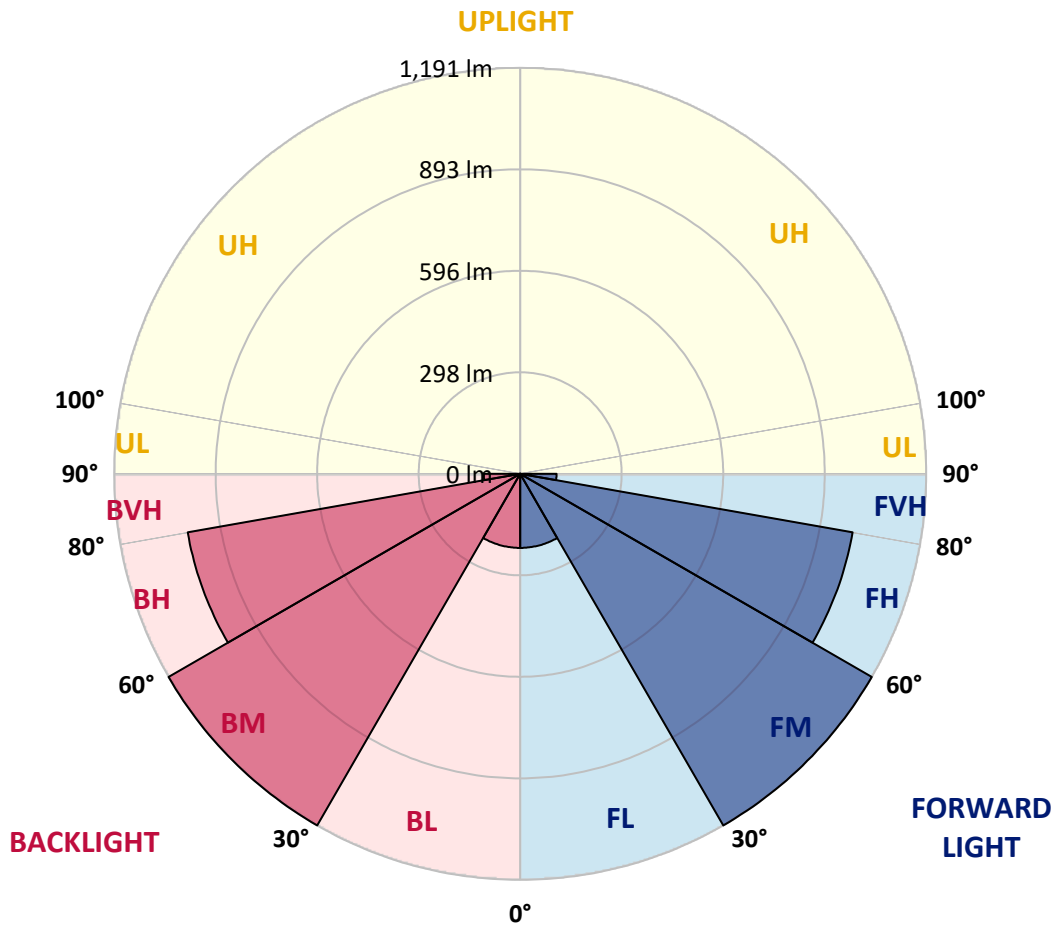
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 CATALOG NUMBER: TTN-D2-735-U-WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.3	4.3			
FM (30°-60°)	1191.1	23.8			
FH (60°-80°)	990.3	19.8			G1/1800
FVH (80°-90°)	106.8	2.1			G2/225
BL (0°-30°)	217.3	4.3	B1/500		
BM (30°-60°)	1191.1	23.8	B2/2500		
BH (60°-80°)	990.3	19.8	B2/1000		G1/1800
BVH (80°-90°)	106.8	2.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8
2.5°	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6
5°	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6
7.5°	412.4	412.4	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
10°	412.4	412.4	416.5	416.5	420.6	420.6	420.6	416.5	416.5	412.4	412.4
12.5°	420.6	420.6	420.6	424.8	428.9	428.9	428.9	424.8	424.8	420.6	420.6
15°	433.0	437.1	437.1	441.2	445.4	445.4	445.4	441.2	441.2	437.1	437.1
17.5°	457.7	457.7	457.7	461.9	466.0	470.1	470.1	461.9	461.9	457.7	461.9
20°	482.5	486.6	486.6	490.7	494.9	499.0	494.9	490.7	486.6	486.6	486.6
22.5°	519.6	519.6	523.7	523.7	532.0	532.0	532.0	523.7	523.7	523.7	523.7
25°	560.8	560.8	565.0	569.1	577.3	577.3	573.2	565.0	565.0	565.0	569.1
27.5°	610.3	610.3	614.4	614.4	622.7	622.7	618.6	614.4	614.4	614.4	618.6
30°	655.7	655.7	663.9	668.1	672.2	672.2	672.2	663.9	663.9	659.8	659.8
32.5°	696.9	701.0	705.2	717.5	725.8	721.7	725.8	717.5	709.3	705.2	705.2
35°	742.3	746.4	754.7	767.0	779.4	779.4	779.4	767.0	758.8	750.5	754.7
37.5°	795.9	795.9	808.3	820.6	837.1	841.3	837.1	824.8	812.4	804.1	804.1
40°	853.6	853.6	866.0	878.4	899.0	903.1	899.0	882.5	866.0	861.9	861.9
42.5°	911.4	911.4	927.9	940.2	965.0	973.2	965.0	944.3	927.9	915.5	919.6
45°	973.2	977.3	998.0	1022.7	1051.6	1063.9	1051.6	1026.8	1002.1	977.3	977.3
47.5°	1043.3	1043.3	1068.1	1096.9	1129.9	1142.3	1125.8	1101.1	1068.1	1047.4	1047.4
50°	1088.7	1092.8	1125.8	1162.9	1204.1	1212.4	1200.0	1162.9	1125.8	1096.9	1092.8
52.5°	1134.0	1138.2	1175.3	1228.9	1270.1	1282.5	1266.0	1228.9	1175.3	1138.2	1138.2
55°	1162.9	1171.2	1212.4	1270.1	1315.5	1336.1	1311.4	1270.1	1208.3	1167.0	1162.9
57.5°	1167.0	1175.3	1216.5	1286.6	1332.0	1356.7	1336.1	1282.5	1216.5	1171.2	1167.0
60°	1158.8	1162.9	1204.1	1278.4	1332.0	1348.5	1332.0	1274.3	1200.0	1162.9	1154.7
62.5°	1138.2	1146.4	1187.7	1249.5	1311.4	1323.7	1307.2	1245.4	1183.5	1138.2	1129.9
65°	1072.2	1080.4	1142.3	1204.1	1257.8	1270.1	1257.8	1204.1	1138.2	1072.2	1063.9
67.5°	998.0	1002.1	1063.9	1138.2	1187.7	1208.3	1187.7	1142.3	1059.8	998.0	989.7
70°	919.6	923.7	973.2	1051.6	1101.1	1125.8	1105.2	1055.7	969.1	915.5	911.4
72.5°	828.9	828.9	878.4	940.2	989.7	1014.5	998.0	936.1	870.1	816.5	808.3
75°	705.2	709.3	762.9	808.3	861.9	878.4	861.9	812.4	750.5	696.9	688.7
77.5°	577.3	581.5	626.8	663.9	713.4	725.8	713.4	672.2	614.4	569.1	565.0
80°	437.1	441.2	478.4	511.4	552.6	569.1	556.7	515.5	470.1	428.9	416.5
82.5°	284.5	288.7	325.8	350.5	387.6	400.0	391.8	354.6	317.5	276.3	272.2
85°	127.8	132.0	165.0	185.6	214.4	226.8	218.6	185.6	156.7	119.6	111.3
87.5°	12.4	12.4	12.4	12.4	12.4	16.5	16.5	12.4	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)