

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: P883452

Luminaire Tested: **NAV-SB3D-760-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3D-760-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

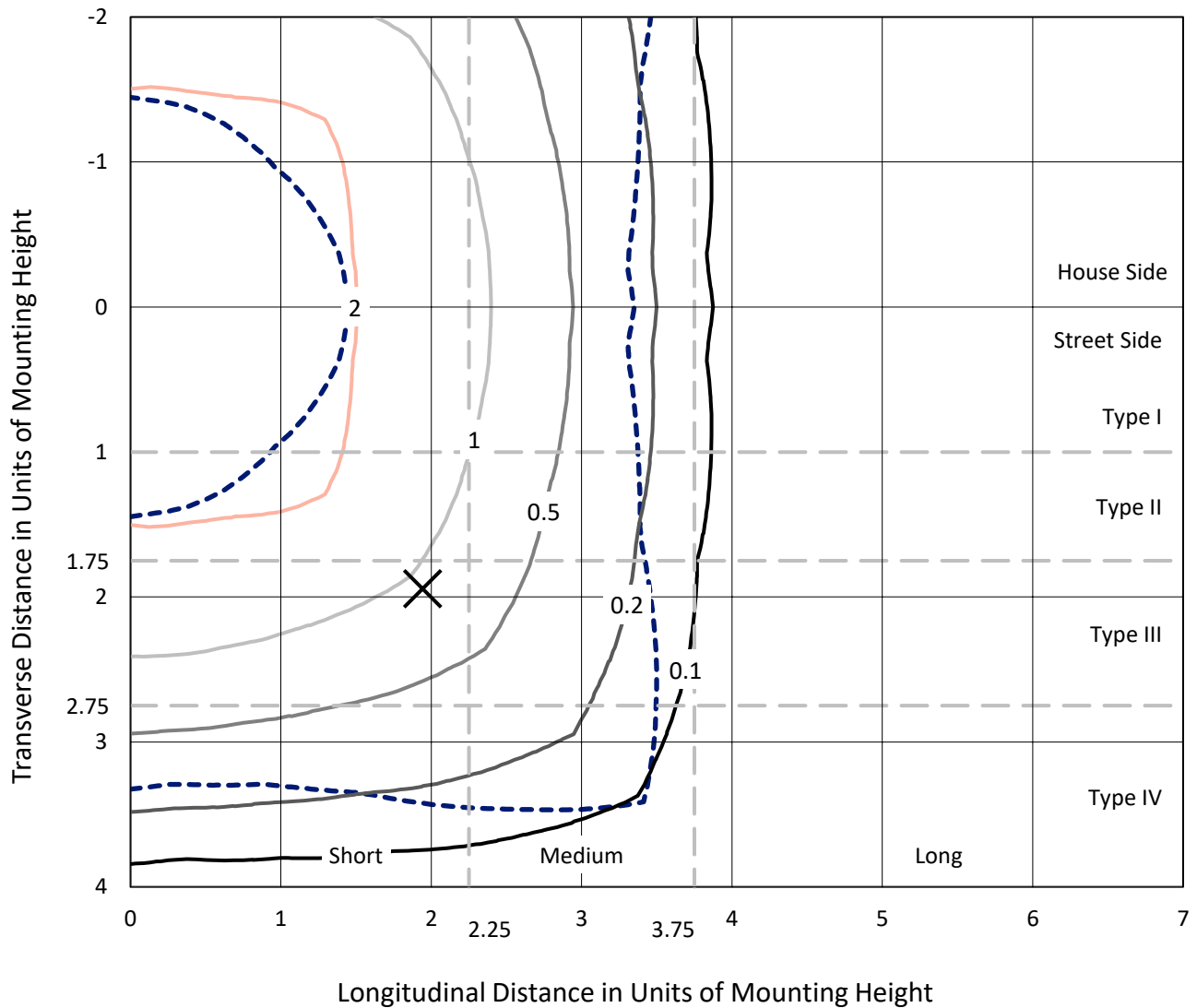
Lumens per Lamp: N/A  
Luminaire Lumens: 33286 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.84  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

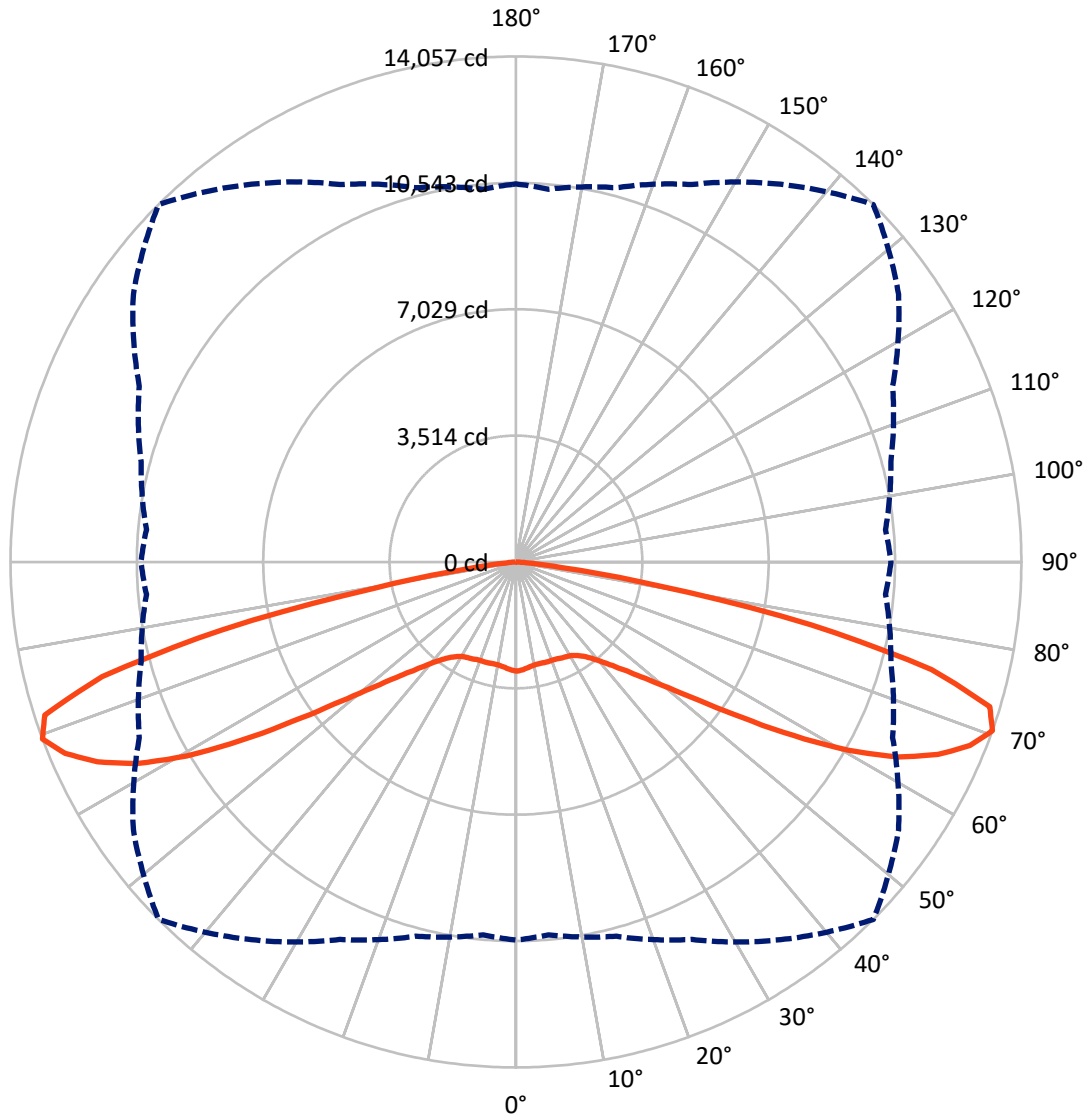
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16643.0	0.0	16643.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16643.0	0.0	16643.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33286.0	0.0	33286.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.5	0.8
10°-20°	829.4	2.5
20°-30°	1380.2	4.1
30°-40°	2087.2	6.3
40°-50°	3468.5	10.4
50°-60°	6544.9	19.7
60°-70°	11051.3	33.2
70°-80°	7261.8	21.8
80°-90°	380.4	1.1
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°	33286.0	100.0
0°-180°	33286.0	100.0



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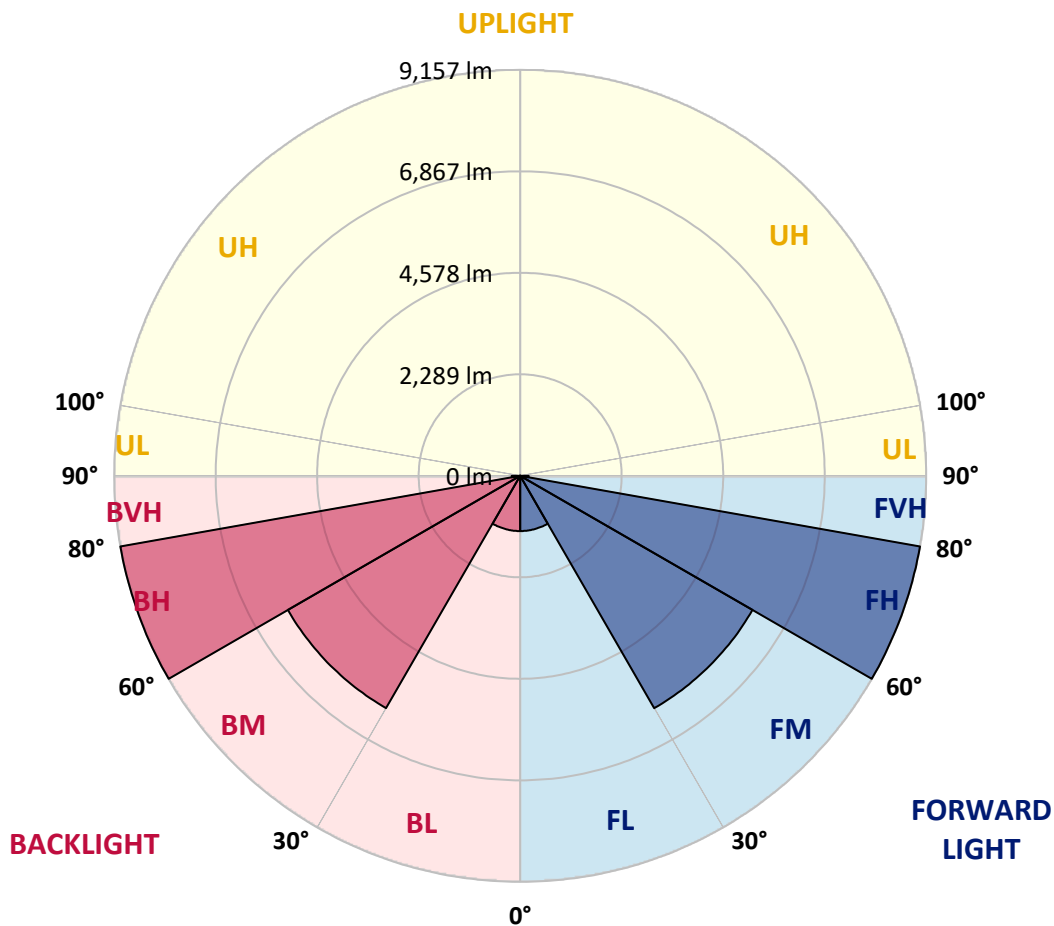
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.0	3.7			
FM (30°-60°)	6050.3	18.2			
FH (60°-80°)	9156.5	27.5			G4/12000
FVH (80°-90°)	190.2	0.6			G2/225
BL (0°-30°)	1246.0	3.7	B3/2500		
BM (30°-60°)	6050.3	18.2	B4/8500		
BH (60°-80°)	9156.5	27.5	B5		G4/12000
BVH (80°-90°)	190.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4
2.5°	3017.3	3026.0	3022.5	3015.6	3015.6	3010.4	3015.6	3019.1	3024.2	3027.7	3026.0
5°	2977.5	2984.4	2982.7	2977.5	2979.3	2974.1	2977.5	2982.7	2986.2	2987.9	2987.9
7.5°	2942.9	2949.8	2946.4	2937.7	2937.7	2932.5	2934.3	2939.5	2944.7	2946.4	2946.4
10°	2934.3	2941.2	2930.8	2917.0	2911.8	2904.9	2906.6	2911.8	2922.2	2927.4	2927.4
12.5°	2937.7	2942.9	2932.5	2911.8	2906.6	2899.7	2899.7	2904.9	2918.7	2925.6	2927.4
15°	2948.1	2953.3	2937.7	2915.2	2910.1	2904.9	2903.1	2910.1	2925.6	2937.7	2939.5
17.5°	2967.1	2972.3	2948.1	2917.0	2910.1	2911.8	2910.1	2915.2	2939.5	2962.0	2962.0
20°	2984.4	2987.9	2955.0	2917.0	2910.1	2911.8	2910.1	2920.4	2951.6	2982.7	2984.4
22.5°	2989.6	2993.1	2962.0	2929.1	2923.9	2925.6	2923.9	2934.3	2963.7	2994.8	2994.8
25°	2991.4	2996.6	2972.3	2946.4	2955.0	2958.5	2955.0	2956.8	2979.3	3006.9	3005.2
27.5°	3017.3	3024.2	3001.8	2979.3	2984.4	2982.7	2987.9	2993.1	3010.4	3038.1	3031.2
30°	3071.0	3076.1	3057.1	3034.6	3031.2	3019.1	3034.6	3051.9	3071.0	3095.2	3090.0
32.5°	3159.2	3169.6	3145.4	3121.1	3105.6	3098.6	3110.7	3140.2	3166.1	3192.1	3181.7
35°	3306.3	3313.2	3290.7	3245.7	3218.0	3218.0	3228.4	3266.5	3308.0	3340.9	3328.7
37.5°	3513.9	3522.5	3482.7	3429.1	3387.6	3387.6	3401.4	3441.2	3503.5	3550.2	3532.9
40°	3766.5	3778.6	3728.4	3673.0	3633.2	3626.3	3643.6	3688.6	3747.4	3806.3	3787.2
42.5°	4071.0	4084.8	4019.1	3970.6	3939.5	3939.5	3948.1	3989.6	4043.3	4115.9	4110.8
45°	4460.2	4484.5	4394.5	4346.1	4316.6	4323.6	4328.7	4365.1	4413.5	4496.6	4493.1
47.5°	4923.9	4948.1	4853.0	4802.8	4797.6	4830.5	4809.7	4835.7	4861.6	4956.8	4929.1
50°	5449.9	5491.4	5425.6	5422.2	5432.6	5493.1	5444.7	5458.5	5429.1	5489.7	5453.3
52.5°	6093.5	6154.0	6141.9	6162.7	6278.6	6403.2	6292.4	6244.0	6133.3	6152.3	6088.3
55°	6873.8	6965.4	6982.7	7107.3	7370.3	7624.6	7389.3	7193.8	6958.5	6915.3	6847.8
57.5°	7761.3	7834.0	7917.0	8171.3	8662.7	9114.3	8662.7	8230.2	7859.9	7771.7	7709.4
60°	8716.3	8806.3	8885.9	9261.3	9991.4	10626.4	9977.6	9290.7	8801.1	8681.7	8577.9
62.5°	9742.3	9858.2	9913.6	10330.5	11181.7	11939.5	11193.8	10361.7	9818.4	9690.4	9586.6
65°	10726.7	10821.9	10884.2	11328.8	12142.0	12901.5	12197.3	11377.2	10818.4	10650.6	10567.5
67.5°	11185.2	11237.1	11389.4	11892.8	12751.0	13617.7	12896.3	11946.5	11321.9	11027.8	11031.2
70°	10513.9	10408.4	10775.2	11581.4	12823.6	14057.2	12989.7	11557.2	10792.5	10315.0	10429.1
72.5°	8124.6	7943.0	8579.6	9958.5	11993.2	13776.9	12076.2	10036.4	8975.8	8007.0	8247.5
75°	4420.4	4214.6	5093.5	6837.4	9564.1	11941.3	9783.8	7032.9	5671.3	4387.6	4673.0
77.5°	1247.4	1169.6	1878.9	3308.0	5752.6	8384.1	5974.1	3380.6	2228.4	1321.8	1468.9
80°	382.4	370.2	501.7	996.5	2442.9	4015.6	2347.8	1008.7	638.4	403.1	425.6
82.5°	226.6	207.6	249.1	363.3	622.8	1261.3	605.5	378.9	304.5	204.2	221.5
85°	129.8	121.1	147.1	176.5	209.3	268.2	174.7	179.9	162.6	109.0	114.2
87.5°	53.6	48.4	57.1	55.4	48.4	62.3	46.7	55.4	65.7	43.3	39.8
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)