

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: P884622

Luminaire Tested: **NAV-SB5C-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884622
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-SB5C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41443 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

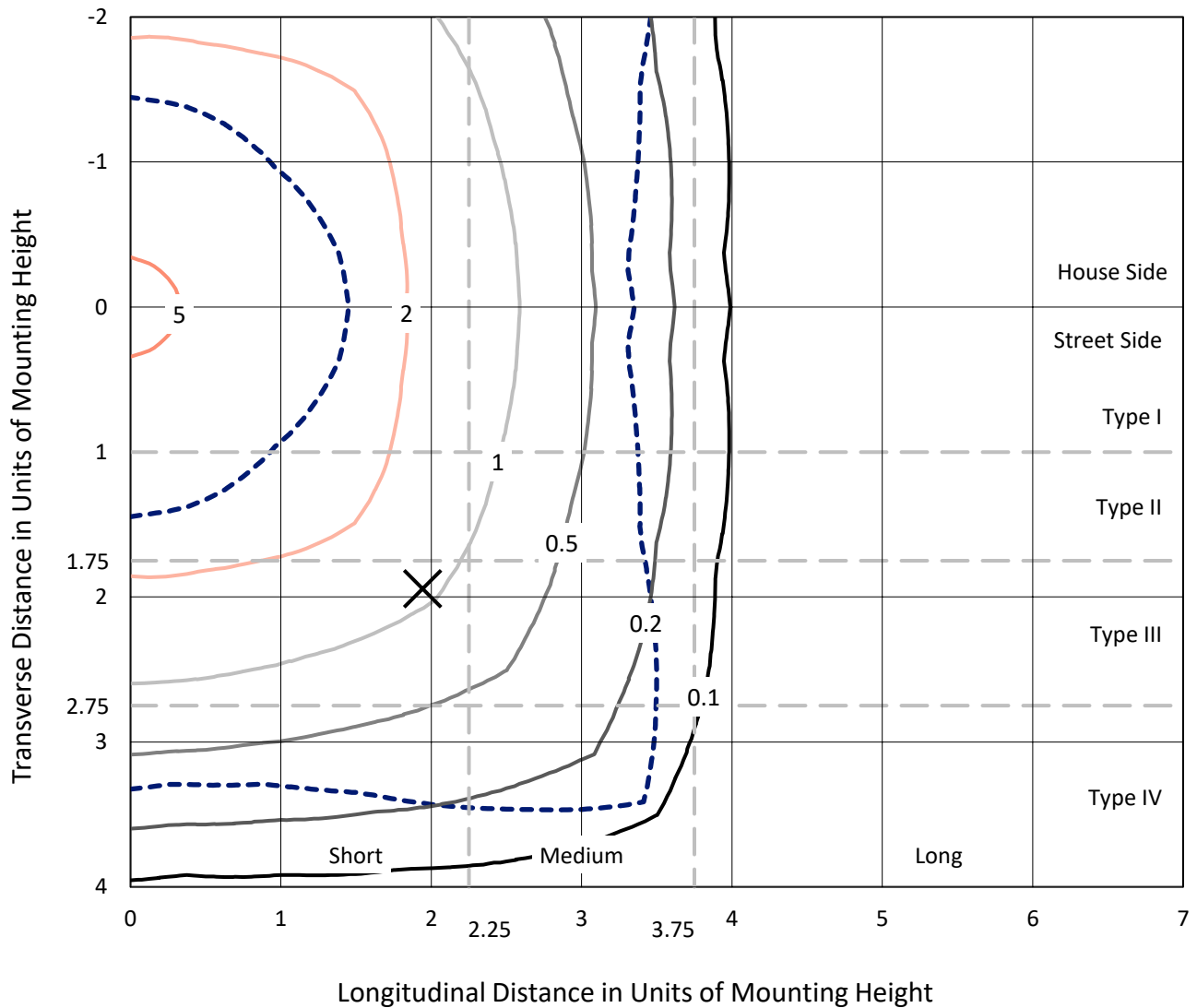
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

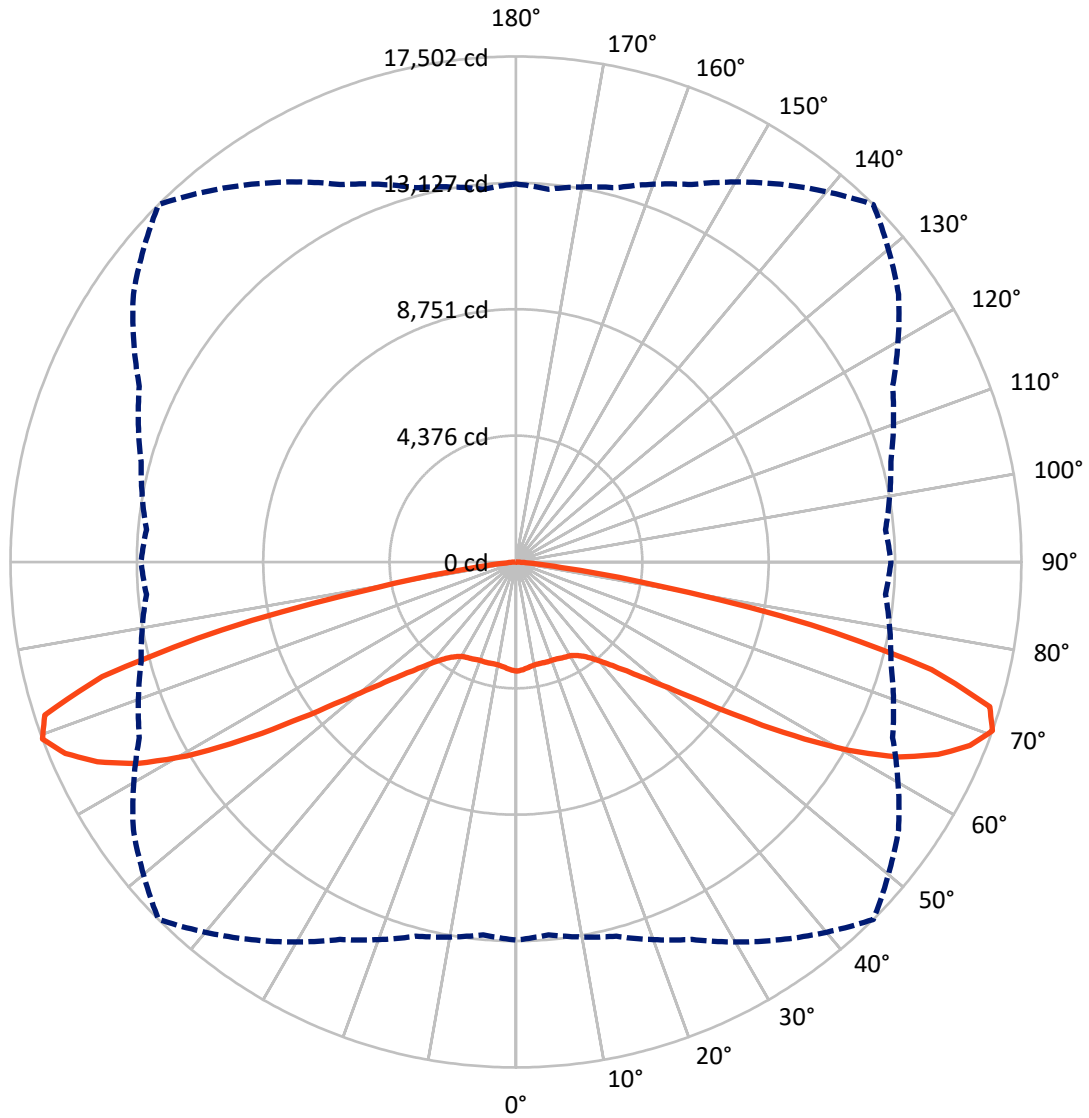
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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
House Side	Lumens	20721.5	0.0	20721.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20721.5	0.0	20721.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41443.0	0.0	41443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	0.8
10°-20°	1032.6	2.5
20°-30°	1718.4	4.1
30°-40°	2598.7	6.3
40°-50°	4318.4	10.4
50°-60°	8148.7	19.7
60°-70°	13759.4	33.2
70°-80°	9041.4	21.8
80°-90°	473.7	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°	41443.0	100.0
0°-180°	41443.0	100.0

Coefficient of Utilization



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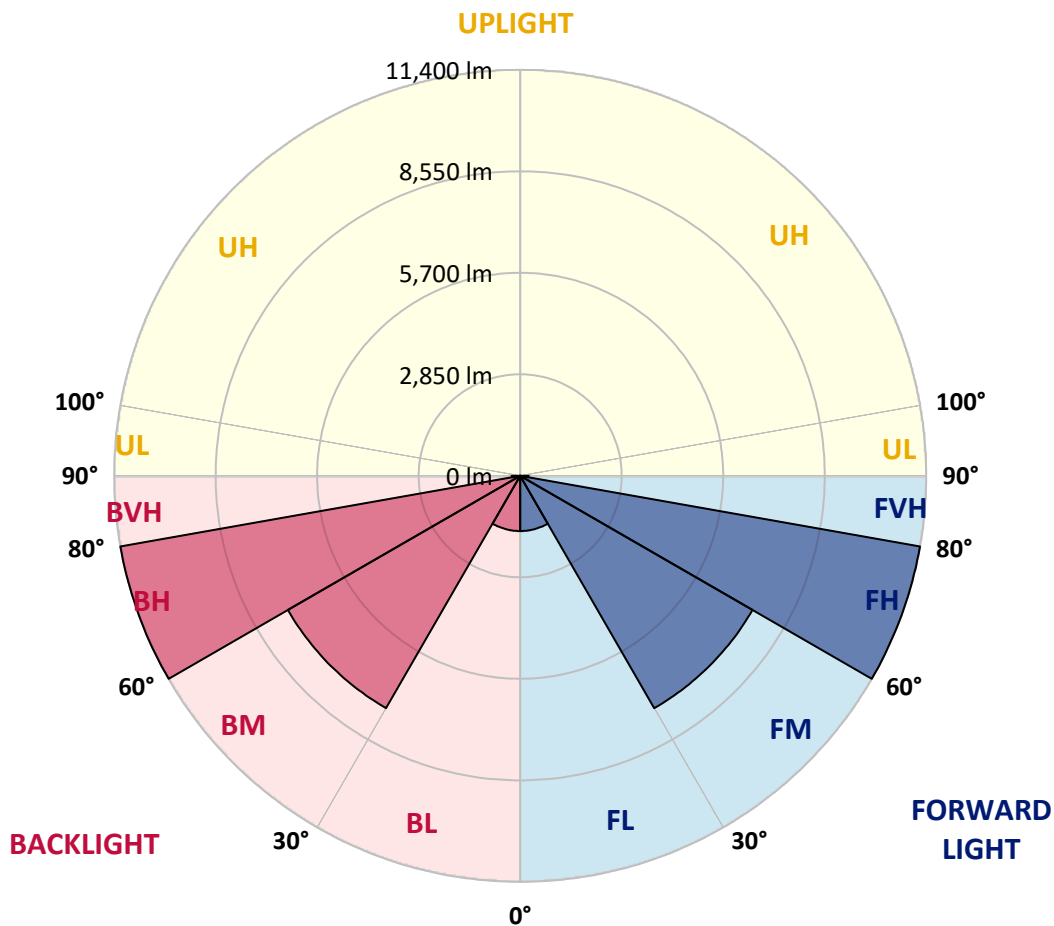
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.3	3.7			
FM (30°-60°)	7532.9	18.2			
FH (60°-80°)	11400.4	27.5			G4/12000
FVH (80°-90°)	236.8	0.6			G3/500
BL (0°-30°)	1551.3	3.7	B3/2500		
BM (30°-60°)	7532.9	18.2	B4/8500		
BH (60°-80°)	11400.4	27.5	B5		G4/12000
BVH (80°-90°)	236.8	0.6			G3/500
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°	3780.4	3780.4	3780.4	3780.4	3780.4	3780.4	3780.4	3780.4	3780.4	3780.4	3780.4
2.5°	3756.7	3767.5	3763.2	3754.6	3754.6	3748.1	3754.6	3758.9	3765.4	3769.7	3767.5
5°	3707.2	3715.8	3713.7	3707.2	3709.4	3702.9	3707.2	3713.7	3718.0	3720.1	3720.1
7.5°	3664.1	3672.7	3668.4	3657.7	3657.7	3651.2	3653.3	3659.8	3666.3	3668.4	3668.4
10°	3653.3	3662.0	3649.0	3631.8	3625.3	3616.7	3618.9	3625.3	3638.3	3644.7	3644.7
12.5°	3657.7	3664.1	3651.2	3625.3	3618.9	3610.3	3610.3	3616.7	3634.0	3642.6	3644.7
15°	3670.6	3677.0	3657.7	3629.6	3623.2	3616.7	3614.6	3623.2	3642.6	3657.7	3659.8
17.5°	3694.3	3700.7	3670.6	3631.8	3623.2	3625.3	3623.2	3629.6	3659.8	3687.8	3687.8
20°	3715.8	3720.1	3679.2	3631.8	3623.2	3625.3	3623.2	3636.1	3674.9	3713.7	3715.8
22.5°	3722.3	3726.6	3687.8	3646.9	3640.4	3642.6	3640.4	3653.3	3690.0	3728.7	3728.7
25°	3724.4	3730.9	3700.7	3668.4	3679.2	3683.5	3679.2	3681.3	3709.4	3743.8	3741.7
27.5°	3756.7	3765.4	3737.4	3709.4	3715.8	3713.7	3720.1	3726.6	3748.1	3782.6	3774.0
30°	3823.5	3830.0	3806.3	3778.3	3774.0	3758.9	3778.3	3799.8	3823.5	3853.7	3847.2
32.5°	3933.4	3946.3	3916.1	3886.0	3866.6	3858.0	3873.1	3909.7	3942.0	3974.3	3961.4
35°	4116.5	4125.1	4097.1	4041.1	4006.6	4006.6	4019.5	4066.9	4118.6	4159.6	4144.5
37.5°	4375.0	4385.7	4336.2	4269.4	4217.7	4217.7	4234.9	4284.5	4362.0	4420.2	4398.7
40°	4689.5	4704.5	4642.1	4573.1	4523.6	4515.0	4536.5	4592.5	4665.8	4739.0	4715.3
42.5°	5068.6	5085.8	5004.0	4943.6	4904.9	4904.9	4915.6	4967.3	5034.1	5124.6	5118.1
45°	5553.3	5583.4	5471.4	5411.1	5374.5	5383.1	5389.5	5434.8	5495.1	5598.5	5594.2
47.5°	6130.6	6160.7	6042.2	5979.8	5973.3	6014.2	5988.4	6020.7	6053.0	6171.5	6137.0
50°	6785.4	6837.1	6755.2	6750.9	6763.9	6839.3	6778.9	6796.2	6759.5	6834.9	6789.7
52.5°	7586.7	7662.1	7647.0	7672.9	7817.2	7972.3	7834.4	7774.1	7636.3	7660.0	7580.3
55°	8558.2	8672.4	8693.9	8849.0	9176.4	9493.1	9200.1	8956.7	8663.8	8609.9	8525.9
57.5°	9663.3	9753.7	9857.1	10173.8	10785.6	11347.8	10785.6	10247.0	9786.1	9676.2	9598.6
60°	10852.3	10964.3	11063.4	11530.9	12439.9	13230.4	12422.7	11567.5	10957.9	10809.2	10680.0
62.5°	12129.7	12274.0	12343.0	12862.1	13921.9	14865.4	13937.0	12900.9	12224.5	12065.1	11935.8
65°	13355.4	13473.9	13551.4	14105.0	15117.4	16063.1	15186.4	14165.3	13469.6	13260.6	13157.2
67.5°	13926.2	13990.8	14180.4	14807.2	15875.7	16954.9	16056.6	14874.0	14096.4	13730.2	13734.5
70°	13090.4	12959.0	13415.7	14419.5	15966.1	17502.0	16172.9	14389.4	13437.2	12842.7	12984.9
72.5°	10115.6	9889.4	10682.2	12399.0	14932.2	17153.1	15035.6	12495.9	11175.4	9969.1	10268.6
75°	5503.7	5247.4	6341.7	8513.0	11907.8	14867.6	12181.4	8756.4	7061.1	5462.8	5818.2
77.5°	1553.1	1456.2	2339.3	4118.6	7162.4	10438.7	7438.1	4209.1	2774.5	1645.7	1828.8
80°	476.1	461.0	624.7	1240.8	3041.6	4999.7	2923.1	1255.8	794.9	501.9	529.9
82.5°	282.2	258.5	310.2	452.4	775.5	1570.3	753.9	471.7	379.1	254.2	275.7
85°	161.6	150.8	183.1	219.7	260.6	333.9	217.6	224.0	202.5	135.7	142.2
87.5°	66.8	60.3	71.1	68.9	60.3	77.5	58.2	68.9	81.9	53.9	49.5
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)