

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: P970321

Luminaire Tested: **NAV-SB6B-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36042.1 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

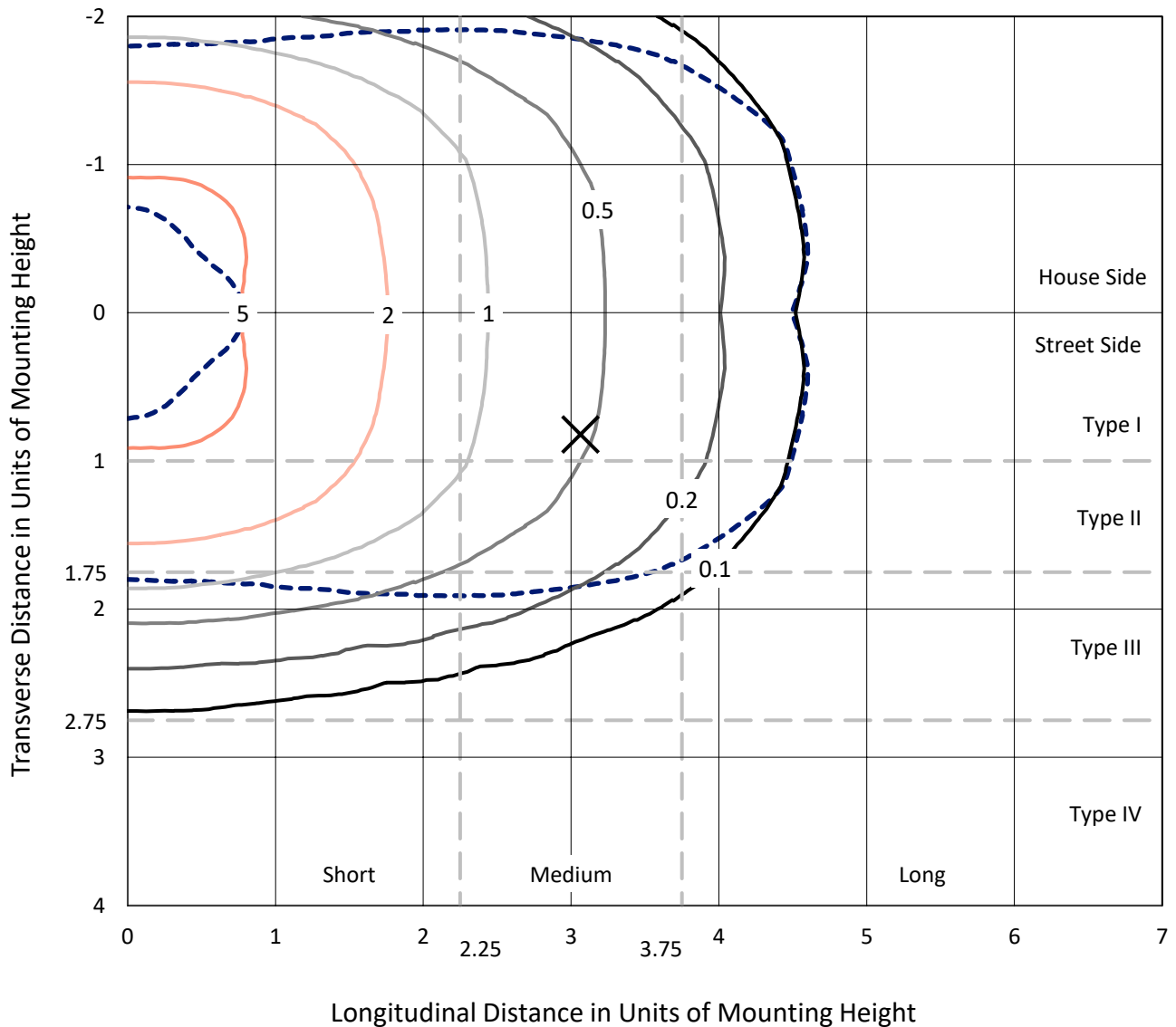
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

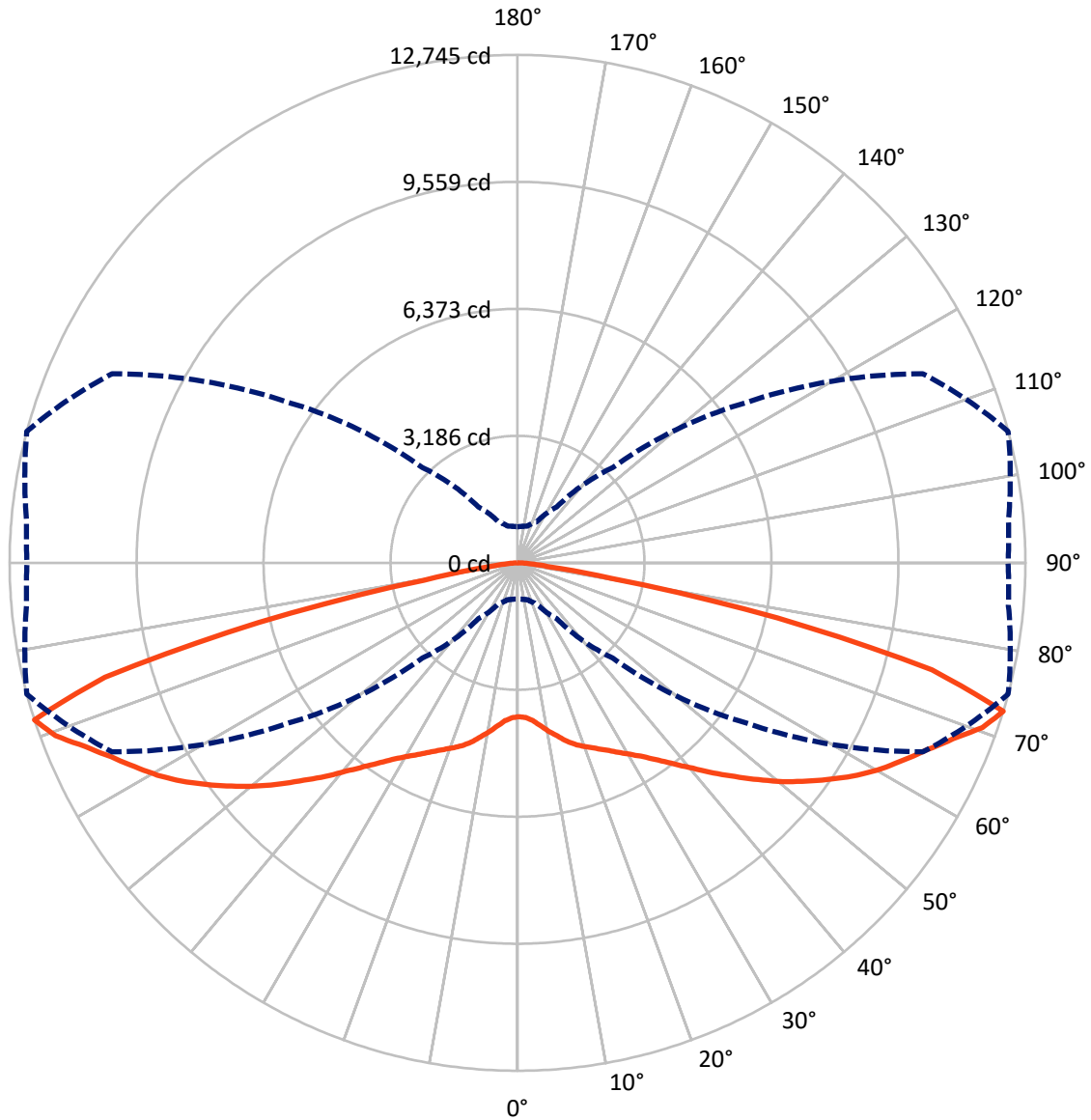
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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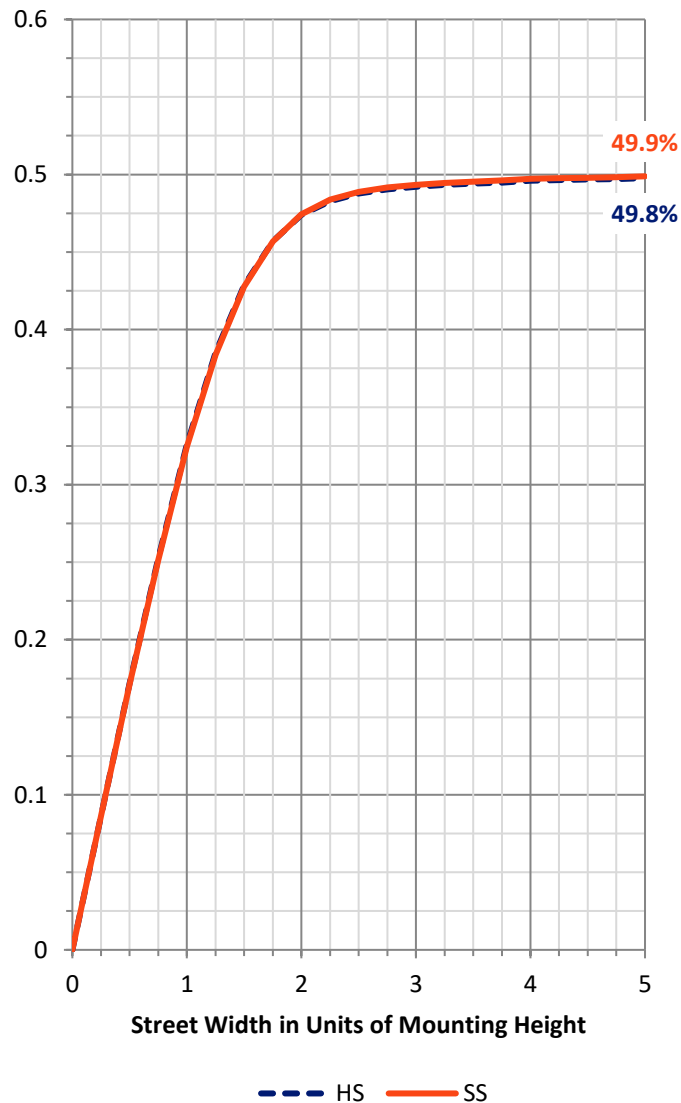
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18021.0	0.0	18021.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18021.0	0.0	18021.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36042.1	0.0	36042.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	1.0
10°-20°	1247.4	3.5
20°-30°	2410.3	6.7
30°-40°	4069.9	11.3
40°-50°	6454.4	17.9
50°-60°	8641.6	24.0
60°-70°	8224.1	22.8
70°-80°	4291.5	11.9
80°-90°	324.8	0.9
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°	36042.1	100.0
0°-180°	36042.1	100.0

Coefficient of Utilization

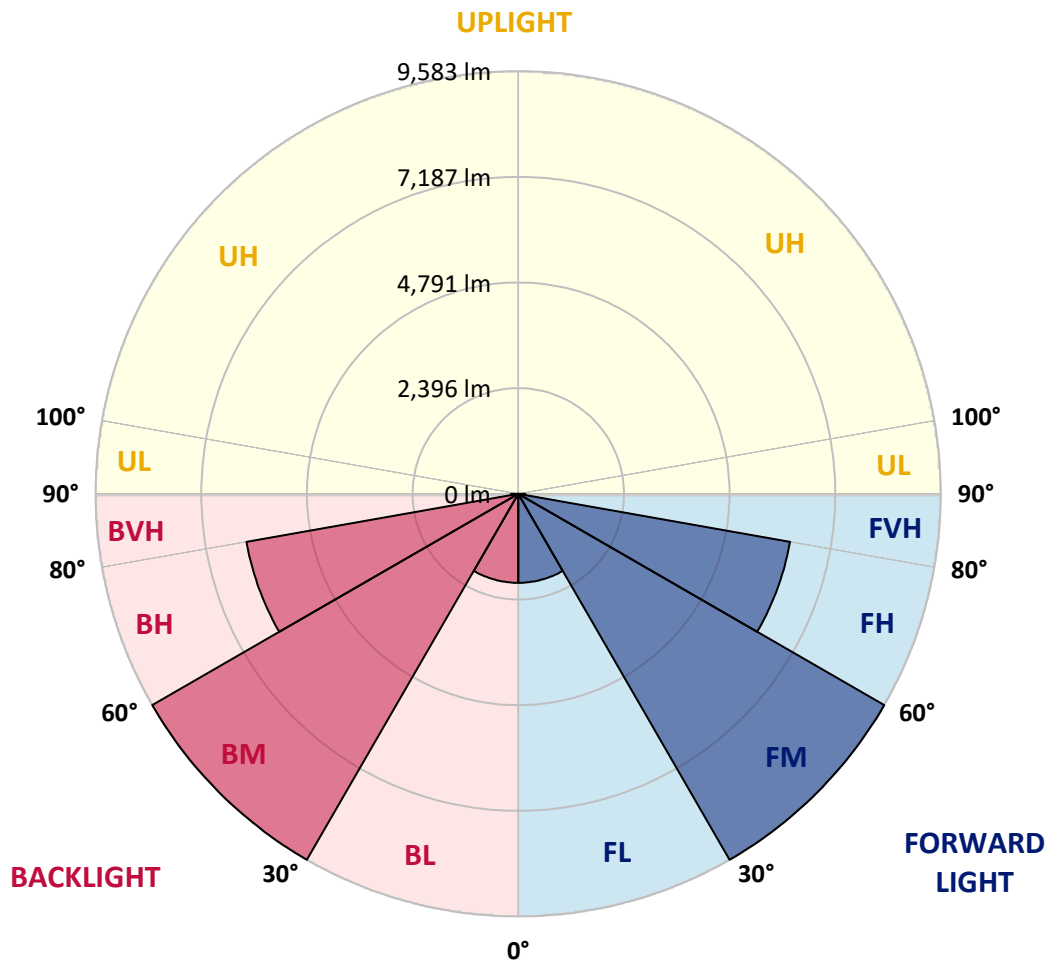


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.9	5.6			
FM (30°-60°)	9582.9	26.6			
FH (60°-80°)	6257.8	17.4			G3/7500
FVH (80°-90°)	162.4	0.5			G2/225
BL (0°-30°)	2017.9	5.6	B3/2500		
BM (30°-60°)	9582.9	26.6	B5		
BH (60°-80°)	6257.8	17.4	B5		G5
BVH (80°-90°)	162.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3860.8	3860.8	3860.8	3860.8	3860.8	3860.8	3860.8	3860.8	3860.8	3860.8	3860.8
2.5°	3860.8	3857.1	3860.8	3864.5	3862.6	3862.6	3871.8	3877.3	3888.3	3886.5	3884.6
5°	3835.0	3833.2	3847.8	3864.5	3877.3	3899.4	3927.0	3947.3	3973.0	3978.5	3978.5
7.5°	3822.1	3816.6	3842.3	3871.8	3912.3	3967.5	4020.9	4076.0	4120.2	4135.0	4138.6
10°	3831.3	3833.2	3868.1	3923.3	3987.8	4065.0	4140.5	4234.3	4296.9	4311.6	4326.3
12.5°	3873.7	3870.0	3928.8	4017.2	4105.5	4203.0	4291.4	4394.4	4462.5	4497.5	4512.2
15°	3951.0	3943.6	4026.4	4157.0	4285.8	4399.9	4471.7	4569.2	4648.4	4692.6	4709.1
17.5°	4042.9	4046.6	4155.1	4324.5	4493.8	4622.6	4690.7	4740.4	4801.1	4839.7	4858.2
20°	4204.9	4212.2	4333.7	4534.3	4727.5	4874.7	4929.9	4911.5	4928.1	4957.5	4979.6
22.5°	4422.1	4425.7	4561.9	4779.1	4981.4	5143.3	5180.1	5104.7	5058.7	5079.0	5093.7
25°	4674.1	4698.1	4834.2	5056.8	5264.8	5419.4	5436.0	5321.9	5207.8	5213.3	5222.5
27.5°	4981.4	5003.5	5141.5	5362.4	5574.0	5708.3	5706.5	5553.8	5386.3	5343.9	5356.9
30°	5314.5	5338.4	5480.2	5708.3	5905.2	6023.0	5997.3	5815.0	5575.8	5496.7	5505.9
32.5°	5710.2	5724.8	5868.4	6096.6	6278.7	6372.6	6319.2	6094.8	5796.7	5706.5	5728.5
35°	6188.6	6210.7	6317.4	6532.7	6692.8	6770.1	6679.9	6415.0	6080.0	5978.8	5993.6
37.5°	6735.2	6720.4	6841.9	7033.2	7165.8	7213.6	7090.3	6775.7	6403.9	6284.3	6306.4
40°	7305.6	7298.2	7430.7	7614.7	7686.6	7716.0	7533.9	7189.7	6777.5	6648.7	6691.0
42.5°	7822.7	7817.2	7995.7	8200.0	8286.4	8253.3	8023.3	7629.5	7210.0	7062.7	7099.6
45°	8236.8	8229.4	8448.4	8735.5	8904.8	8849.5	8540.4	8115.3	7647.9	7495.1	7530.2
47.5°	8555.2	8558.8	8794.3	9149.5	9445.8	9466.0	9068.5	8610.3	8130.0	7957.1	8008.5
50°	8785.2	8796.1	9048.3	9442.1	9847.0	10025.4	9607.7	9118.2	8628.8	8433.7	8492.5
52.5°	8842.2	8862.5	9166.1	9627.9	10104.6	10445.1	10156.1	9605.9	9101.7	8915.8	8963.6
55°	8538.6	8579.0	8963.6	9613.3	10262.8	10721.0	10638.3	10100.9	9578.3	9386.8	9440.2
57.5°	7841.1	7898.1	8347.2	9195.5	10227.9	10910.6	11011.8	10575.6	10054.8	9870.9	9913.2
60°	6864.0	6932.1	7362.7	8288.3	9734.7	10980.5	11274.9	11037.5	10492.8	10314.4	10353.0
62.5°	5390.0	5478.3	5993.6	7079.3	8693.1	10654.8	11499.5	11455.3	10886.6	10664.0	10689.7
65°	3457.7	3551.6	4094.5	5377.0	7303.7	9657.4	11569.4	11861.9	11302.6	10991.6	11030.2
67.5°	2085.0	2127.3	2395.9	3259.0	5338.4	8154.0	10976.8	12312.8	11788.3	11401.9	11431.3
70°	1334.1	1358.0	1518.1	1913.8	3017.9	5949.4	9508.3	12397.5	12377.2	11823.3	11819.7
72.5°	905.4	912.8	955.1	1133.5	1707.8	3380.4	7013.0	11223.4	12745.3	12366.2	12307.3
75°	662.5	702.9	771.0	802.4	969.8	1689.3	4019.0	7885.3	10741.3	10906.9	10505.7
77.5°	493.1	495.0	588.9	625.7	691.9	899.8	1700.4	4401.8	6668.9	7002.0	6245.6
80°	417.7	395.6	393.8	504.2	520.8	561.3	760.0	1520.0	2388.6	1448.2	1094.9
82.5°	347.8	323.9	292.6	393.8	355.2	344.1	329.4	618.3	760.0	373.6	318.4
85°	242.9	231.9	220.8	257.6	202.4	173.0	158.3	288.9	320.2	158.3	139.8
87.5°	104.9	108.5	110.4	114.1	84.7	60.7	60.7	81.0	81.0	62.5	46.0
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)