

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: P970409

Luminaire Tested: **NAV-SB6B-750-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-750-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38779.9 lumens
Efficiency: N/A
Efficacy: 176.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

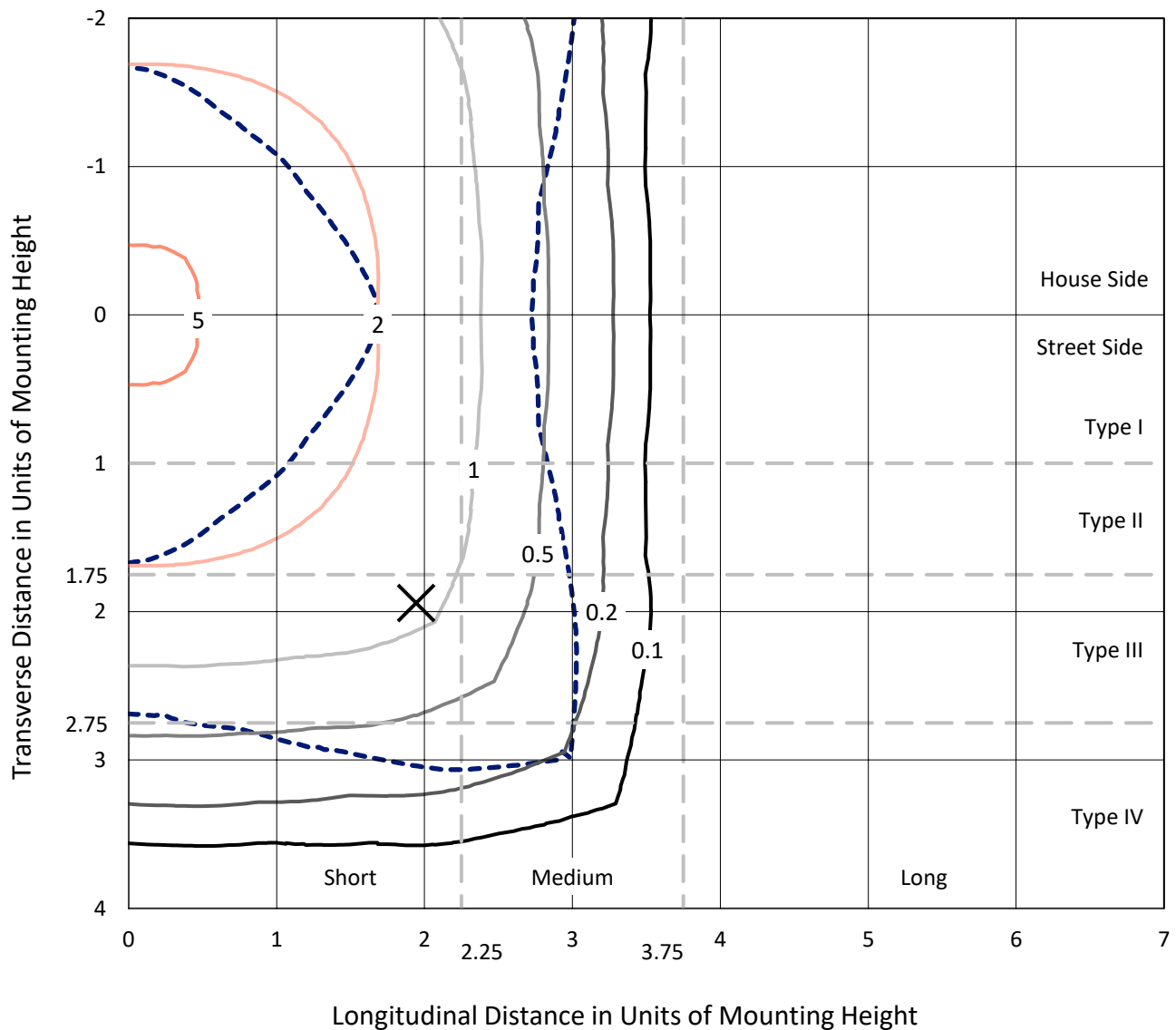
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970409
 CATALOG NUMBER: NAV-SB6B-750-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

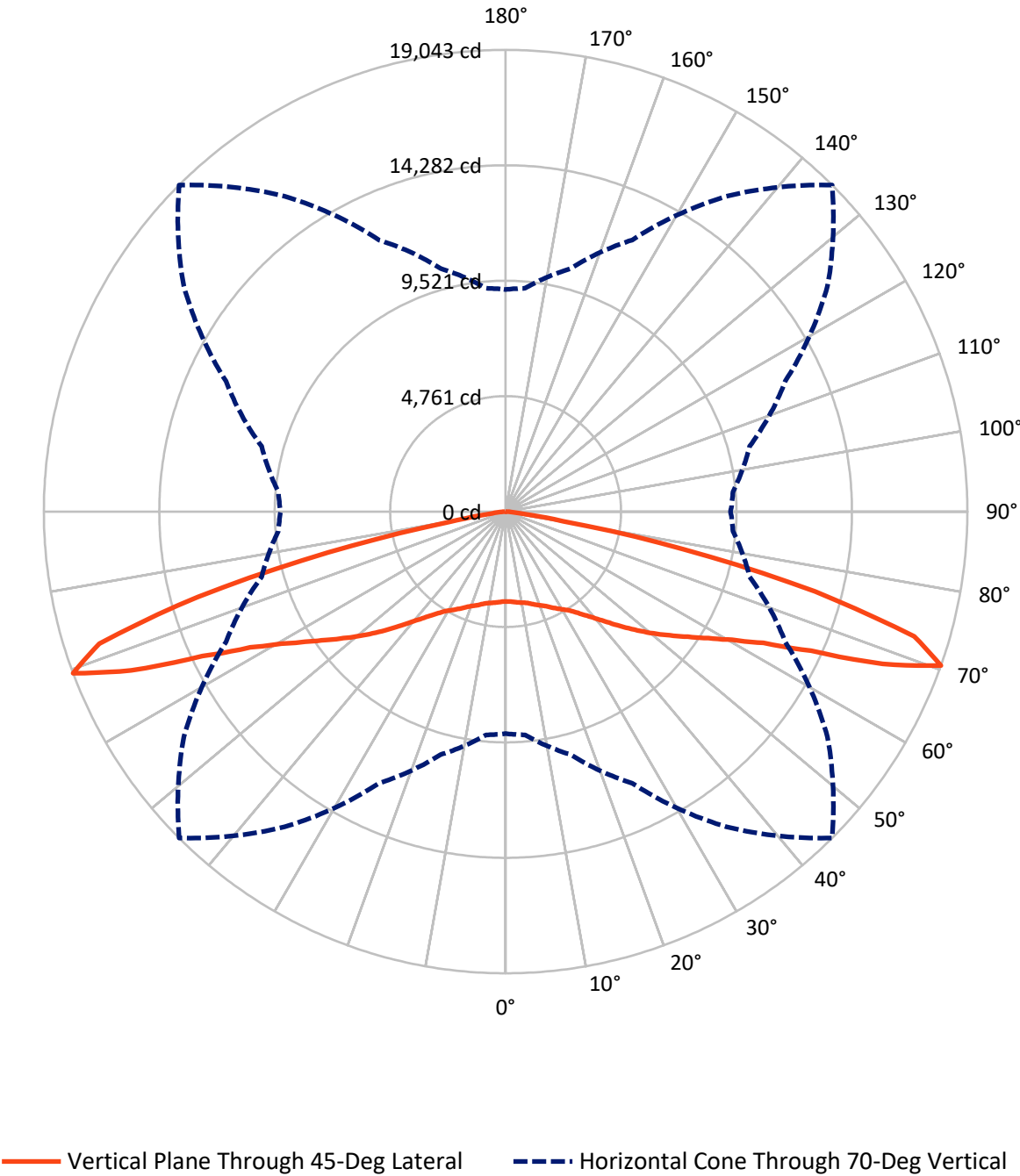
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P970409
CATALOG NUMBER: NAV-SB6B-750-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P970409

CATALOG NUMBER: NAV-SB6B-750-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19389.9	0.0	19389.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19389.9	0.0	19389.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	38779.9	0.0	38779.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	0.9
10°-20°	1119.1	2.9
20°-30°	1999.9	5.2
30°-40°	3241.8	8.4
40°-50°	5280.4	13.6
50°-60°	8050.8	20.8
60°-70°	11977.0	30.9
70°-80°	6527.8	16.8
80°-90°	222.3	0.6
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°	38779.9	100.0
0°-180°	38779.9	100.0

Coefficient of Utilization



REPORT NUMBER: P970409

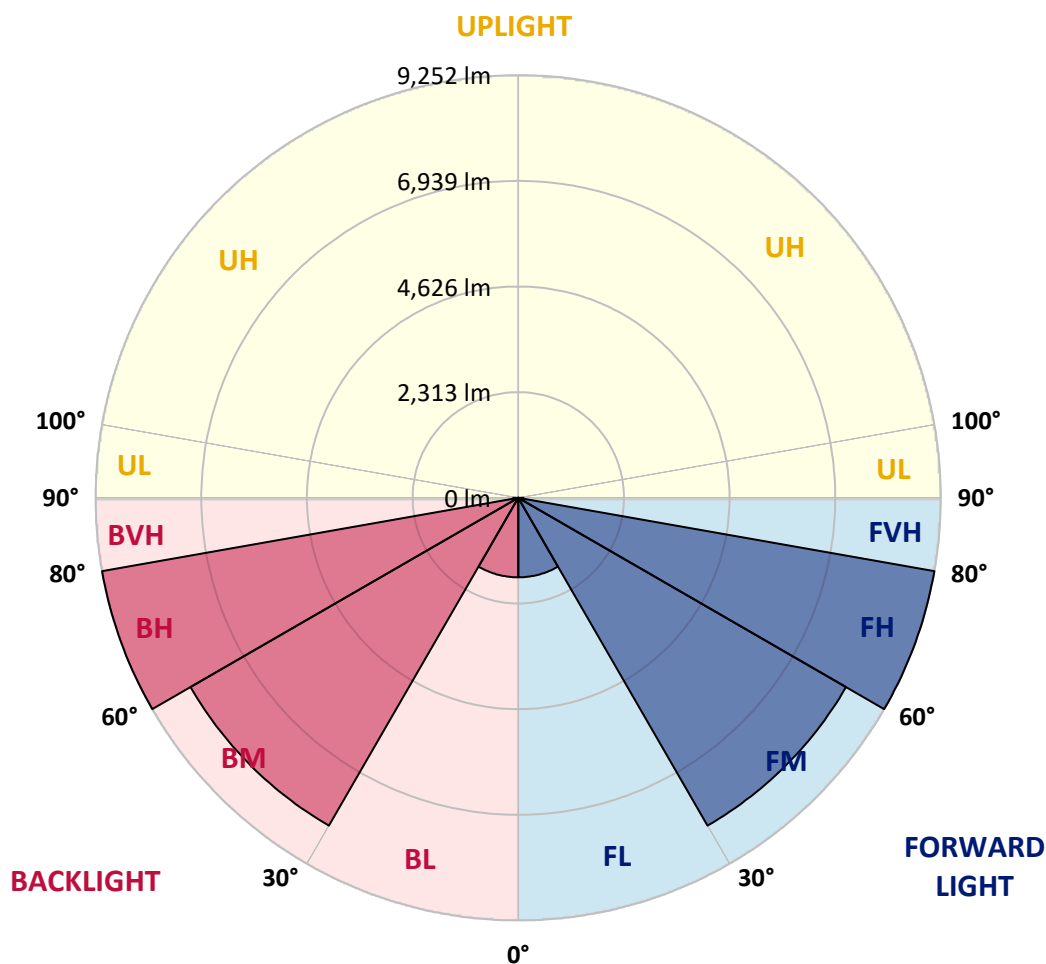
CATALOG NUMBER: NAV-SB6B-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1739.9	4.5			
FM	(30°-60°)	8286.5	21.4			
FH	(60°-80°)	9252.4	23.9			G4/12000
FVH	(80°-90°)	111.1	0.3			G2/225
BL	(0°-30°)	1739.9	4.5	B3/2500		
BM	(30°-60°)	8286.5	21.4	B4/8500		
BH	(60°-80°)	9252.4	23.9	B5		G4/12000
BVH	(80°-90°)	111.1	0.3			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



REPORT NUMBER: P970409

CATALOG NUMBER: NAV-SB6B-750-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3714.7	3714.7	3714.7	3714.7	3714.7	3714.7	3714.7	3714.7	3714.7	3714.7	3714.7
2.5°	3732.2	3736.1	3728.3	3724.4	3720.5	3714.7	3716.6	3726.4	3734.2	3732.2	3734.2
5°	3763.4	3767.3	3761.4	3759.5	3751.7	3749.8	3749.8	3759.5	3765.3	3761.4	3763.4
7.5°	3798.4	3804.3	3794.6	3792.6	3788.7	3784.8	3782.9	3792.6	3798.4	3798.4	3798.4
10°	3831.6	3837.4	3829.6	3823.8	3819.9	3819.9	3816.0	3823.8	3833.5	3831.6	3831.6
12.5°	3866.6	3870.5	3862.7	3858.8	3858.8	3864.7	3858.8	3862.7	3870.5	3866.6	3864.7
15°	3909.3	3911.3	3909.3	3915.2	3924.9	3944.4	3926.9	3923.0	3926.9	3917.1	3917.1
17.5°	3967.8	3971.7	3979.5	3993.1	4006.7	4041.8	4010.6	4000.9	4000.9	3981.4	3981.4
20°	4039.8	4045.7	4057.4	4080.7	4098.3	4131.4	4100.2	4086.6	4080.7	4055.4	4055.4
22.5°	4115.8	4125.5	4143.0	4174.2	4205.4	4236.5	4205.4	4182.0	4164.5	4131.4	4129.4
25°	4203.4	4215.1	4242.4	4292.9	4335.8	4380.5	4343.5	4296.8	4261.7	4215.1	4213.2
27.5°	4328.0	4341.6	4374.7	4437.0	4491.5	4530.5	4495.4	4435.1	4386.4	4329.9	4328.0
30°	4503.2	4516.9	4555.8	4621.9	4658.9	4684.2	4660.9	4614.1	4555.8	4491.5	4491.5
32.5°	4729.0	4746.6	4789.4	4851.7	4859.5	4863.4	4855.6	4832.3	4789.4	4711.5	4713.5
35°	5015.2	5034.7	5083.4	5134.0	5126.2	5134.0	5122.3	5114.5	5083.4	4993.8	4993.8
37.5°	5365.7	5389.0	5439.7	5478.6	5459.2	5449.4	5451.4	5453.3	5435.8	5336.5	5336.5
40°	5772.6	5803.8	5840.8	5881.7	5848.5	5819.3	5838.8	5854.4	5838.8	5737.5	5737.5
42.5°	6191.2	6236.0	6274.9	6333.3	6306.0	6269.1	6296.3	6313.8	6280.7	6171.7	6179.5
45°	6656.5	6699.3	6749.9	6837.6	6818.1	6779.1	6818.1	6822.0	6765.5	6637.0	6650.6
47.5°	7137.4	7182.2	7258.1	7374.9	7367.1	7324.2	7374.9	7347.6	7275.7	7121.8	7112.1
50°	7593.0	7655.2	7772.1	7935.7	7951.2	7898.6	7966.8	7914.2	7793.5	7600.8	7596.9
52.5°	8021.2	8087.5	8272.5	8494.4	8550.9	8482.7	8574.2	8482.7	8301.7	8054.3	8031.0
55°	8471.0	8545.0	8765.0	9055.1	9168.0	9117.4	9203.1	9064.8	8807.8	8508.0	8467.1
57.5°	9000.5	9045.3	9308.2	9652.8	9843.6	9855.3	9894.2	9660.6	9349.0	9008.3	8961.7
60°	9574.9	9637.3	9923.4	10336.2	10638.0	10735.2	10694.3	10347.9	9985.8	9594.4	9532.1
62.5°	10310.9	10378.9	10721.6	11216.2	11693.2	11934.6	11774.9	11272.6	10824.8	10355.6	10273.9
65°	10920.2	10996.2	11615.3	12497.2	13365.6	13850.3	13449.2	12524.5	11718.4	11056.5	10947.5
67.5°	10478.3	10571.7	11543.2	13163.0	15322.2	16768.8	15396.2	13361.7	11782.7	10885.2	10750.8
70°	9158.3	9245.9	10378.9	12359.0	15873.1	19042.8	16204.1	12723.1	10415.9	9411.3	9277.1
72.5°	6080.2	6362.5	7509.3	9884.5	14173.5	17621.5	14313.7	9683.9	6966.0	6066.6	5870.0
75°	2017.0	2242.8	3025.5	5124.3	9493.1	13178.6	9037.5	4534.4	2396.7	1725.0	1631.5
77.5°	508.2	586.0	808.0	1466.1	3786.8	7503.4	3409.0	1197.3	652.2	455.6	406.9
80°	247.2	272.5	389.4	488.7	948.1	2385.0	889.7	459.5	307.6	237.5	218.0
82.5°	136.3	138.3	220.0	276.4	352.4	617.2	366.0	268.7	177.1	144.1	144.1
85°	83.7	81.8	116.8	148.0	148.0	220.0	175.2	148.0	101.3	89.6	93.5
87.5°	33.1	33.1	42.8	46.7	40.9	56.5	44.8	48.7	38.9	37.0	38.9
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)