

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: P885462

Luminaire Tested: **NAV-SB6D-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885462
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-SB6D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 62476 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

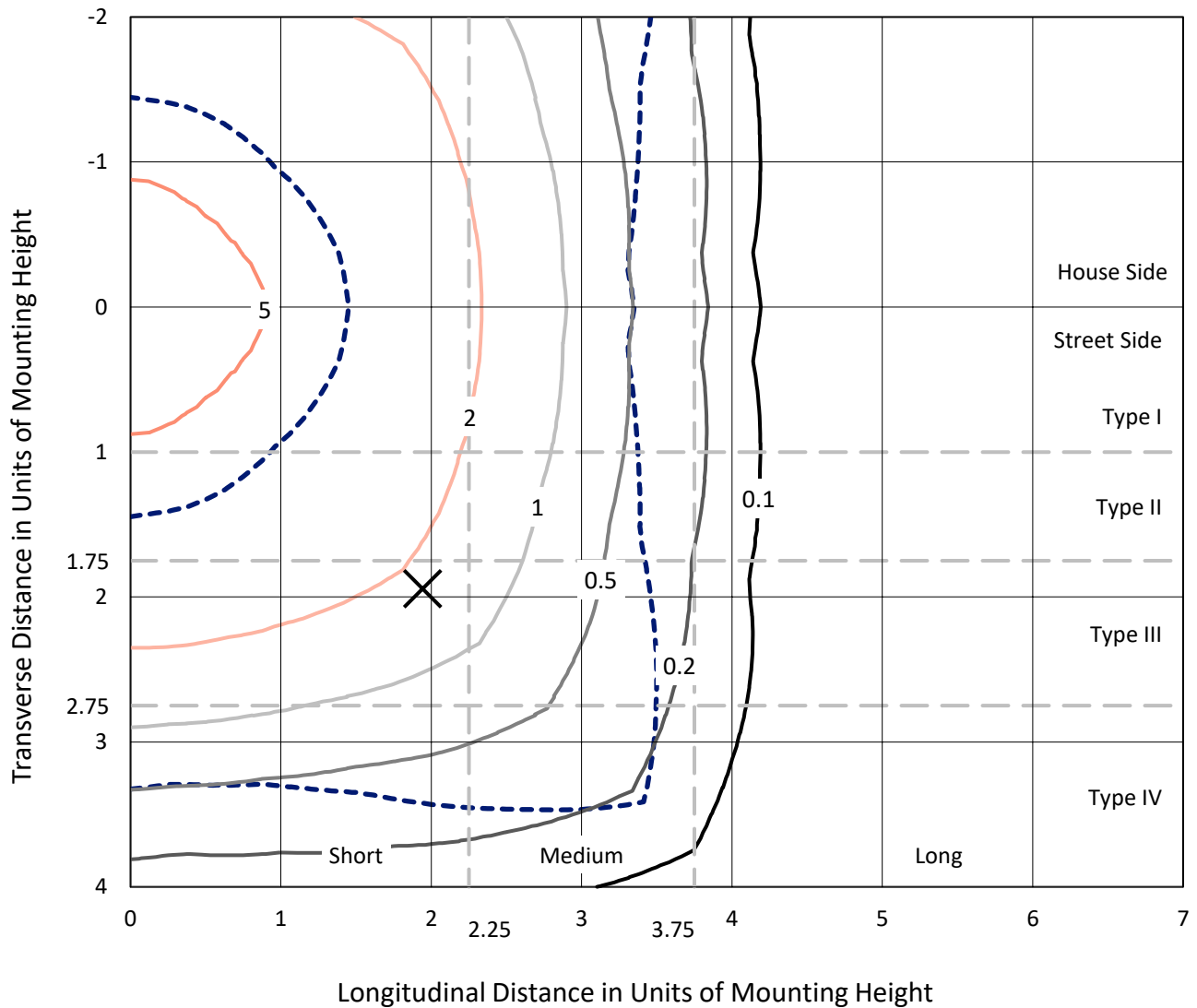
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885462
 CATALOG NUMBER: NAV-SB6D-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

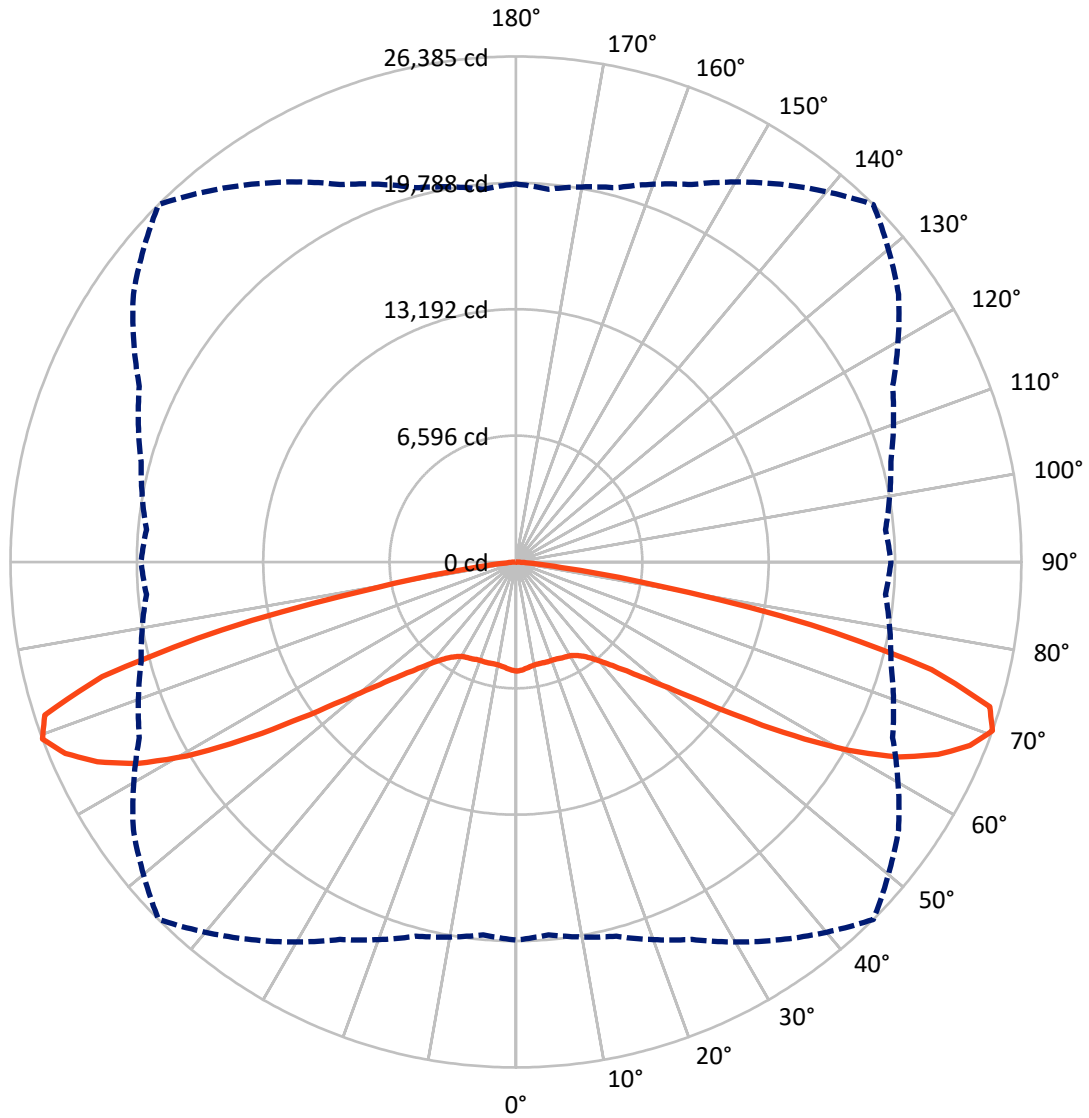
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

REPORT NUMBER: P885462
CATALOG NUMBER: NAV-SB6D-735-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885462

CATALOG NUMBER: NAV-SB6D-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31238.0	0.0	31238.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31238.0	0.0	31238.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	62476.0	0.0	62476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	0.8
10°-20°	1556.6	2.5
20°-30°	2590.5	4.1
30°-40°	3917.6	6.3
40°-50°	6510.1	10.4
50°-60°	12284.3	19.7
60°-70°	20742.6	33.2
70°-80°	13630.0	21.8
80°-90°	714.1	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°	62476.0	100.0
0°-180°	62476.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885462

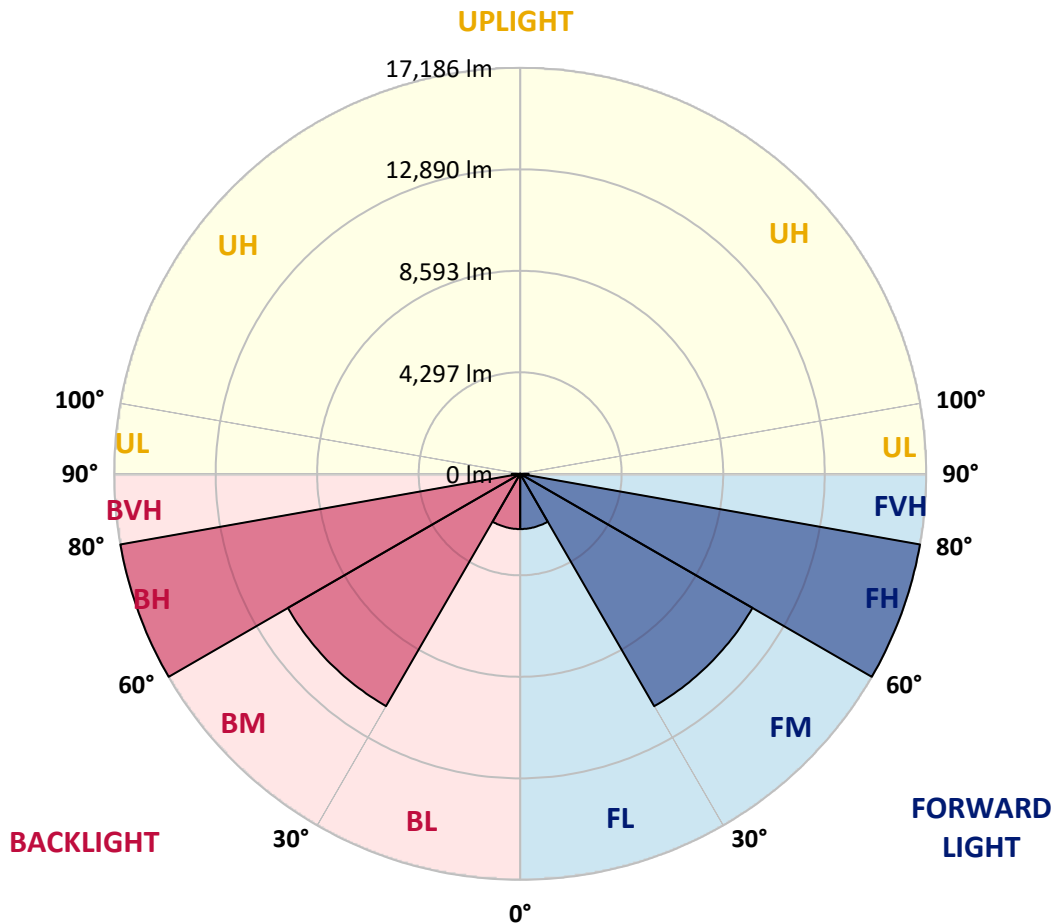
CATALOG NUMBER: NAV-SB6D-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.6	3.7			
FM (30°-60°)	11356.0	18.2			
FH (60°-80°)	17186.3	27.5			G5
FVH (80°-90°)	357.0	0.6			G3/500
BL (0°-30°)	2338.6	3.7	B3/2500		
BM (30°-60°)	11356.0	18.2	B5		
BH (60°-80°)	17186.3	27.5	B5		G5
BVH (80°-90°)	357.0	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-G5

Type V Short



REPORT NUMBER: P885462

CATALOG NUMBER: NAV-SB6D-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5699.1	5699.1	5699.1	5699.1	5699.1	5699.1	5699.1	5699.1	5699.1	5699.1	5699.1
2.5°	5663.3	5679.6	5673.1	5660.1	5660.1	5650.4	5660.1	5666.6	5676.3	5682.8	5679.6
5°	5588.7	5601.6	5598.4	5588.7	5591.9	5582.2	5588.7	5598.4	5604.9	5608.1	5608.1
7.5°	5523.7	5536.7	5530.2	5514.0	5514.0	5504.2	5507.5	5517.2	5527.0	5530.2	5530.2
10°	5507.5	5520.5	5501.0	5475.0	5465.3	5452.3	5455.5	5465.3	5484.7	5494.5	5494.5
12.5°	5514.0	5523.7	5504.2	5465.3	5455.5	5442.5	5442.5	5452.3	5478.3	5491.2	5494.5
15°	5533.5	5543.2	5514.0	5471.8	5462.0	5452.3	5449.0	5462.0	5491.2	5514.0	5517.2
17.5°	5569.2	5578.9	5533.5	5475.0	5462.0	5465.3	5462.0	5471.8	5517.2	5559.4	5559.4
20°	5601.6	5608.1	5546.4	5475.0	5462.0	5465.3	5462.0	5481.5	5539.9	5598.4	5601.6
22.5°	5611.4	5617.9	5559.4	5497.7	5488.0	5491.2	5488.0	5507.5	5562.7	5621.1	5621.1
25°	5614.6	5624.4	5578.9	5530.2	5546.4	5552.9	5546.4	5549.7	5591.9	5643.9	5640.6
27.5°	5663.3	5676.3	5634.1	5591.9	5601.6	5598.4	5608.1	5617.9	5650.4	5702.3	5689.3
30°	5764.0	5773.8	5738.0	5695.8	5689.3	5666.6	5695.8	5728.3	5764.0	5809.5	5799.7
32.5°	5929.6	5949.1	5903.7	5858.2	5829.0	5816.0	5838.7	5893.9	5942.6	5991.3	5971.8
35°	6205.7	6218.6	6176.4	6092.0	6040.0	6040.0	6059.5	6131.0	6208.9	6270.6	6247.9
37.5°	6595.3	6611.6	6536.9	6436.2	6358.3	6358.3	6384.3	6458.9	6575.8	6663.5	6631.1
40°	7069.4	7092.2	6998.0	6894.1	6819.4	6806.4	6838.9	6923.3	7033.7	7144.1	7108.4
42.5°	7641.0	7667.0	7543.6	7452.6	7394.2	7394.2	7410.4	7488.3	7589.0	7725.4	7715.7
45°	8371.6	8417.1	8248.2	8157.3	8102.1	8115.1	8124.8	8193.0	8283.9	8439.8	8433.3
47.5°	9241.9	9287.4	9108.8	9014.6	9004.9	9066.6	9027.6	9076.3	9125.0	9303.6	9251.7
50°	10229.1	10307.0	10183.6	10177.1	10196.6	10310.3	10219.4	10245.3	10190.1	10303.8	10235.6
52.5°	11437.1	11550.8	11528.0	11567.0	11784.6	12018.4	11810.5	11719.6	11511.8	11547.5	11427.4
55°	12901.7	13073.8	13106.2	13340.0	13833.6	14311.0	13869.4	13502.4	13060.8	12979.6	12852.9
57.5°	14567.5	14703.9	14859.8	15337.2	16259.4	17106.9	16259.4	15447.6	14752.6	14587.0	14470.1
60°	16360.1	16528.9	16678.3	17383.0	18753.3	19945.1	18727.4	17438.2	16519.2	16295.1	16100.3
62.5°	18285.7	18503.3	18607.2	19389.8	20987.5	22409.8	21010.2	19448.3	18428.6	18188.3	17993.5
65°	20133.5	20312.1	20429.0	21263.5	22789.8	24215.4	22893.7	21354.5	20305.6	19990.6	19834.7
67.5°	20994.0	21091.4	21377.2	22322.2	23932.8	25559.8	24205.6	22422.8	21250.5	20698.5	20705.0
70°	19734.0	19536.0	20224.4	21737.6	24069.2	26384.6	24381.0	21692.2	20256.9	19360.6	19574.9
72.5°	15249.5	14908.5	16103.5	18691.6	22510.5	25858.5	22666.4	18837.8	16847.2	15028.7	15480.0
75°	8296.9	7910.5	9560.1	12833.5	17951.3	22413.1	18363.7	13200.4	10644.8	8235.2	8771.0
77.5°	2341.3	2195.2	3526.6	6208.9	10797.4	15736.6	11213.0	6345.3	4182.6	2481.0	2757.0
80°	717.7	694.9	941.7	1870.5	4585.2	7537.1	4406.6	1893.2	1198.3	756.6	798.8
82.5°	425.4	389.7	467.6	681.9	1169.0	2367.3	1136.6	711.2	571.5	383.2	415.7
85°	243.5	227.3	276.0	331.2	392.9	503.3	328.0	337.7	305.2	204.6	214.3
87.5°	100.7	90.9	107.2	103.9	90.9	116.9	87.7	103.9	123.4	81.2	74.7
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)