

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: P884782

Luminaire Tested: **NAV-SB5D-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884782
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-SB5D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 52231 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

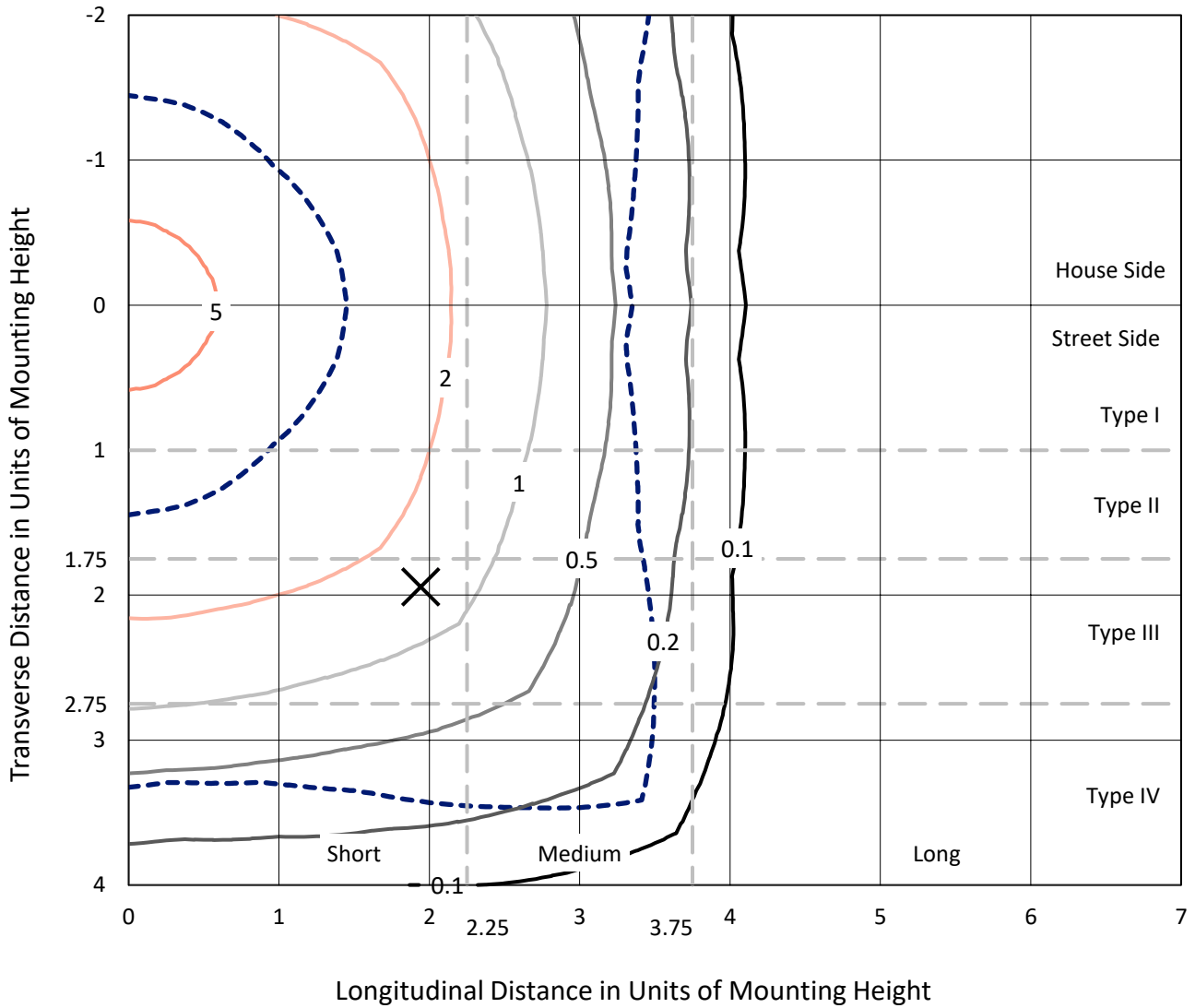
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884782
 CATALOG NUMBER: NAV-SB5D-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

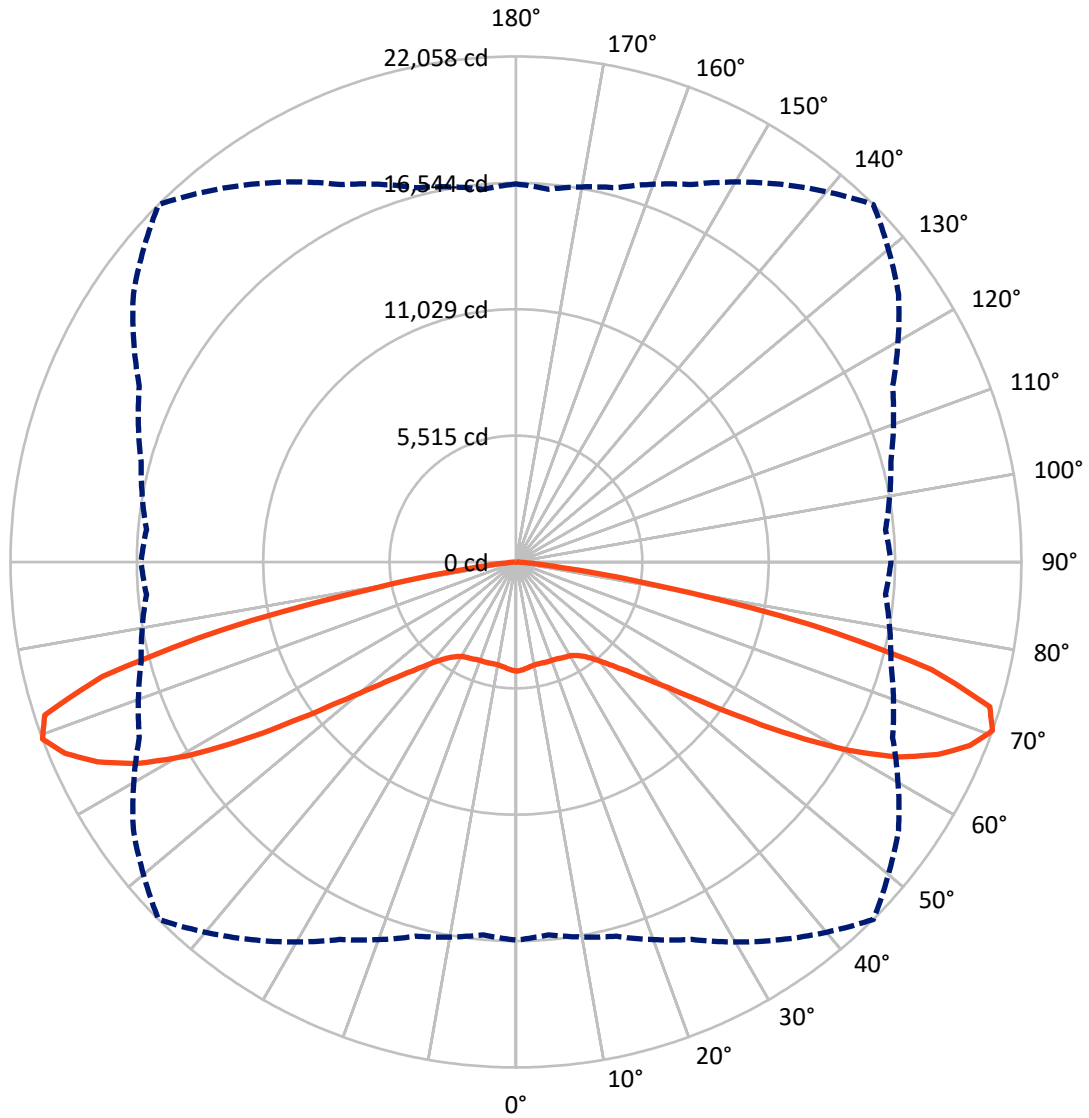
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

REPORT NUMBER: P884782
CATALOG NUMBER: NAV-SB5D-735-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P884782

CATALOG NUMBER: NAV-SB5D-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26115.5	0.0	26115.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26115.5	0.0	26115.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52231.0	0.0	52231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	0.8
10°-20°	1301.4	2.5
20°-30°	2165.7	4.1
30°-40°	3275.2	6.3
40°-50°	5442.6	10.4
50°-60°	10269.9	19.7
60°-70°	17341.2	33.2
70°-80°	11394.9	21.8
80°-90°	597.0	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°	52231.0	100.0
0°-180°	52231.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884782

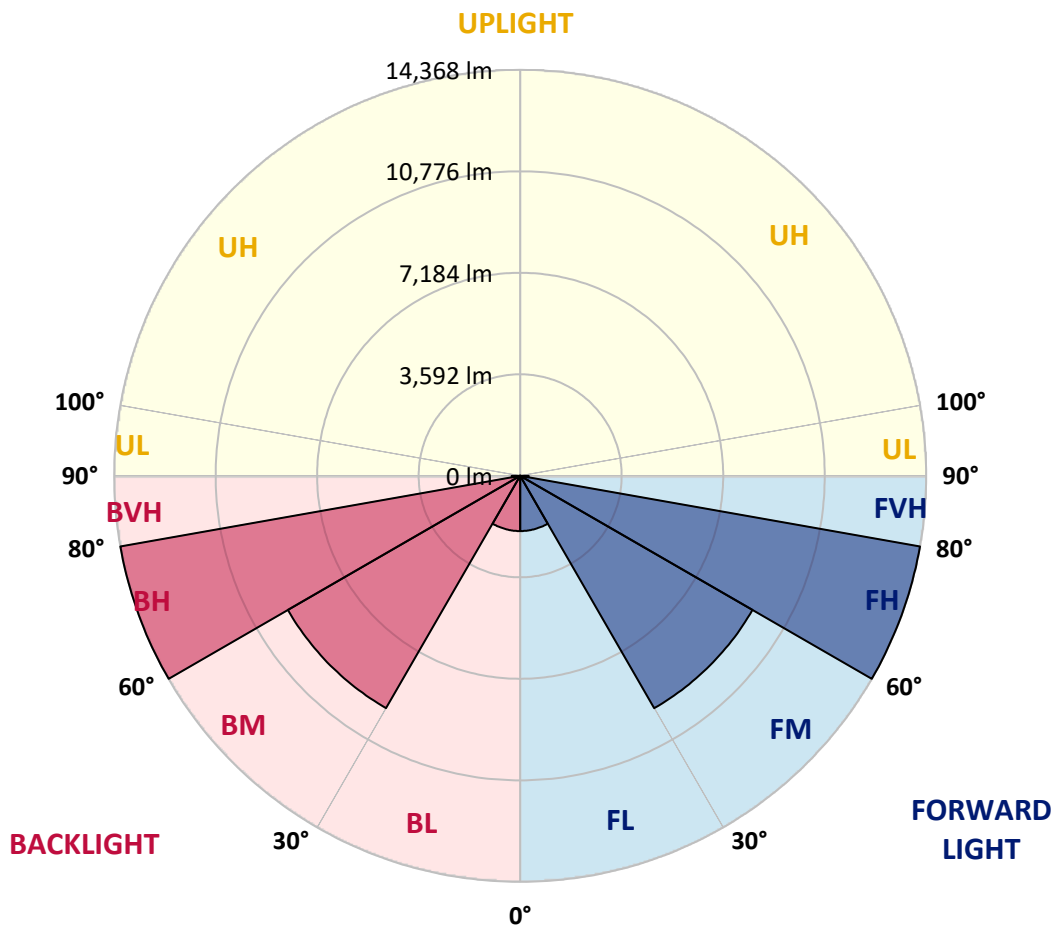
CATALOG NUMBER: NAV-SB5D-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1955.1	3.7			
FM (30°-60°)	9493.8	18.2			
FH (60°-80°)	14368.0	27.5			G5
FVH (80°-90°)	298.5	0.6			G3/500
BL (0°-30°)	1955.1	3.7	B3/2500		
BM (30°-60°)	9493.8	18.2	B5		
BH (60°-80°)	14368.0	27.5	B5		G5
BVH (80°-90°)	298.5	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: P884782

CATALOG NUMBER: NAV-SB5D-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5
2.5°	4734.7	4748.2	4742.8	4731.9	4731.9	4723.8	4731.9	4737.4	4745.5	4750.9	4748.2
5°	4672.2	4683.1	4680.4	4672.2	4674.9	4666.8	4672.2	4680.4	4685.8	4688.5	4688.5
7.5°	4617.9	4628.8	4623.3	4609.8	4609.8	4601.6	4604.3	4612.5	4620.6	4623.3	4623.3
10°	4604.3	4615.2	4598.9	4577.2	4569.1	4558.2	4560.9	4569.1	4585.3	4593.5	4593.5
12.5°	4609.8	4617.9	4601.6	4569.1	4560.9	4550.0	4550.0	4558.2	4579.9	4590.8	4593.5
15°	4626.1	4634.2	4609.8	4574.5	4566.3	4558.2	4555.5	4566.3	4590.8	4609.8	4612.5
17.5°	4655.9	4664.1	4626.1	4577.2	4566.3	4569.1	4566.3	4574.5	4612.5	4647.8	4647.8
20°	4683.1	4688.5	4636.9	4577.2	4566.3	4569.1	4566.3	4582.6	4631.5	4680.4	4683.1
22.5°	4691.2	4696.6	4647.8	4596.2	4588.1	4590.8	4588.1	4604.3	4650.5	4699.4	4699.4
25°	4693.9	4702.1	4664.1	4623.3	4636.9	4642.4	4636.9	4639.6	4674.9	4718.4	4715.7
27.5°	4734.7	4745.5	4710.2	4674.9	4683.1	4680.4	4688.5	4696.6	4723.8	4767.2	4756.4
30°	4818.8	4827.0	4797.1	4761.8	4756.4	4737.4	4761.8	4789.0	4818.8	4856.8	4848.7
32.5°	4957.3	4973.6	4935.6	4897.5	4873.1	4862.3	4881.3	4927.4	4968.1	5008.9	4992.6
35°	5188.0	5198.9	5163.6	5093.0	5049.6	5049.6	5065.9	5125.6	5190.7	5242.3	5223.3
37.5°	5513.8	5527.4	5464.9	5380.8	5315.6	5315.6	5337.3	5399.8	5497.5	5570.8	5543.7
40°	5910.2	5929.2	5850.4	5763.6	5701.1	5690.3	5717.4	5788.0	5880.3	5972.6	5942.8
42.5°	6388.0	6409.7	6306.5	6230.5	6181.7	6181.7	6195.2	6260.4	6344.5	6458.6	6450.4
45°	6998.8	7036.8	6895.7	6819.6	6773.5	6784.3	6792.5	6849.5	6925.5	7055.8	7050.4
47.5°	7726.4	7764.4	7615.1	7536.4	7528.2	7579.8	7547.2	7587.9	7628.7	7778.0	7734.5
50°	8551.7	8616.9	8513.7	8508.3	8524.6	8619.6	8543.6	8565.3	8519.1	8614.1	8557.1
52.5°	9561.6	9656.6	9637.6	9670.2	9852.1	10047.6	9873.8	9797.8	9624.1	9653.9	9553.5
55°	10786.0	10929.9	10957.0	11152.5	11565.2	11964.2	11595.0	11288.2	10919.0	10851.2	10745.3
57.5°	12178.7	12292.7	12423.0	12822.1	13593.1	14301.7	13593.1	12914.4	12333.5	12195.0	12097.3
60°	13677.3	13818.5	13943.3	14532.5	15678.1	16674.5	15656.4	14578.6	13810.3	13623.0	13460.1
62.5°	15287.2	15469.1	15556.0	16210.2	17545.9	18735.0	17564.9	16259.1	15406.6	15205.7	15042.8
65°	16831.9	16981.2	17079.0	17776.7	19052.6	20244.5	19139.5	17852.7	16975.8	16712.5	16582.2
67.5°	17551.3	17632.8	17871.7	18661.7	20008.3	21368.4	20236.3	18745.9	17765.8	17304.3	17309.7
70°	16498.0	16332.4	16907.9	18173.0	20122.3	22058.0	20382.9	18135.0	16935.1	16185.8	16365.0
72.5°	12748.8	12463.8	13462.8	15626.5	18819.2	21618.2	18949.5	15748.7	14084.5	12564.2	12941.6
75°	6936.4	6613.3	7992.4	10729.0	15007.6	18737.7	15352.3	11035.8	8899.2	6884.8	7332.7
77.5°	1957.4	1835.2	2948.3	5190.7	9026.8	13156.0	9374.3	5304.8	3496.7	2074.1	2304.9
80°	600.0	581.0	787.3	1563.7	3833.3	6301.1	3684.0	1582.7	1001.8	632.6	667.8
82.5°	355.6	325.8	390.9	570.1	977.3	1979.1	950.2	594.5	477.8	320.3	347.5
85°	203.6	190.0	230.8	276.9	328.5	420.8	274.2	282.3	255.2	171.0	179.2
87.5°	84.2	76.0	89.6	86.9	76.0	97.7	73.3	86.9	103.2	67.9	62.4
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)