

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: P967744

Luminaire Tested: **NAV-SB5A-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25749 lumens
Efficiency: N/A
Efficacy: 181.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 141.7
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

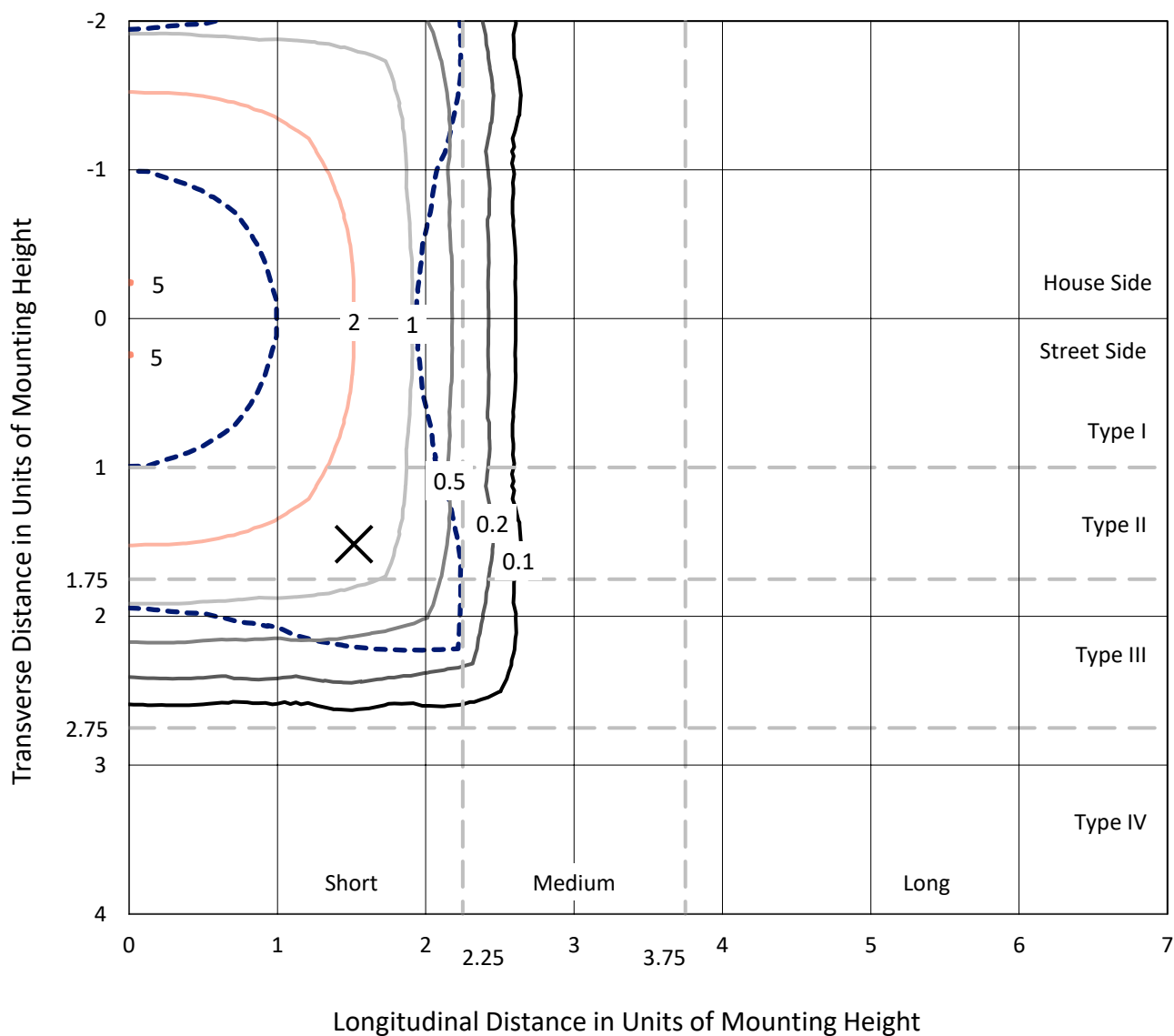


REPORT NUMBER: P967744

CATALOG NUMBER: NAV-SB5A-740-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

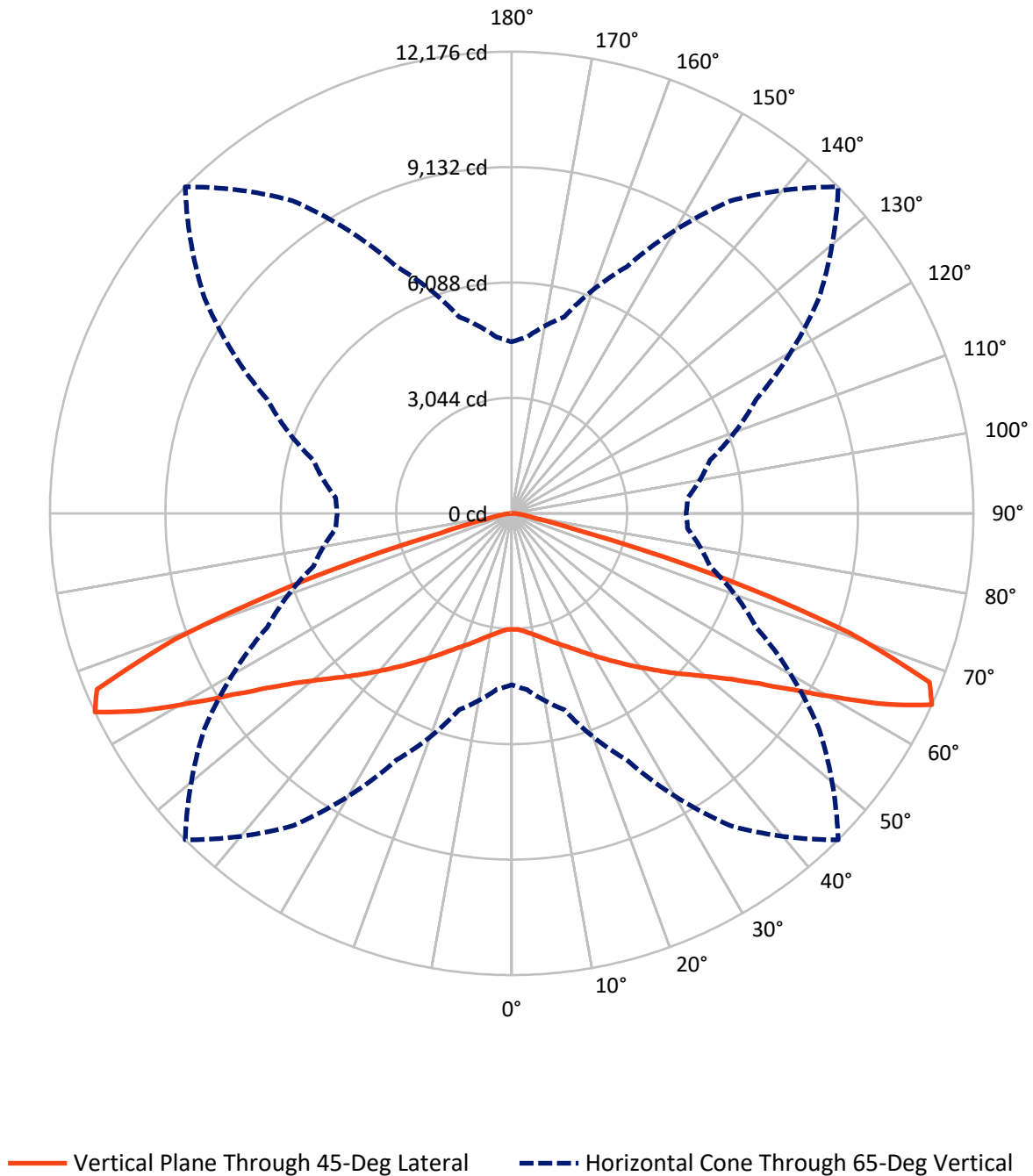
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type V - Short - N/A

REPORT NUMBER: P967744
CATALOG NUMBER: NAV-SB5A-740-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12874.5	0.0	12874.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12874.5	0.0	12874.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25749.0	0.0	25749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	1.2
10°-20°	986.8	3.8
20°-30°	1863.3	7.2
30°-40°	3051.0	11.8
40°-50°	4730.7	18.4
50°-60°	6988.2	27.1
60°-70°	6652.1	25.8
70°-80°	1073.4	4.2
80°-90°	101.2	0.4
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°	25749.0	100.0
0°-180°	25749.0	100.0

Coefficient of Utilization



REPORT NUMBER: P967744

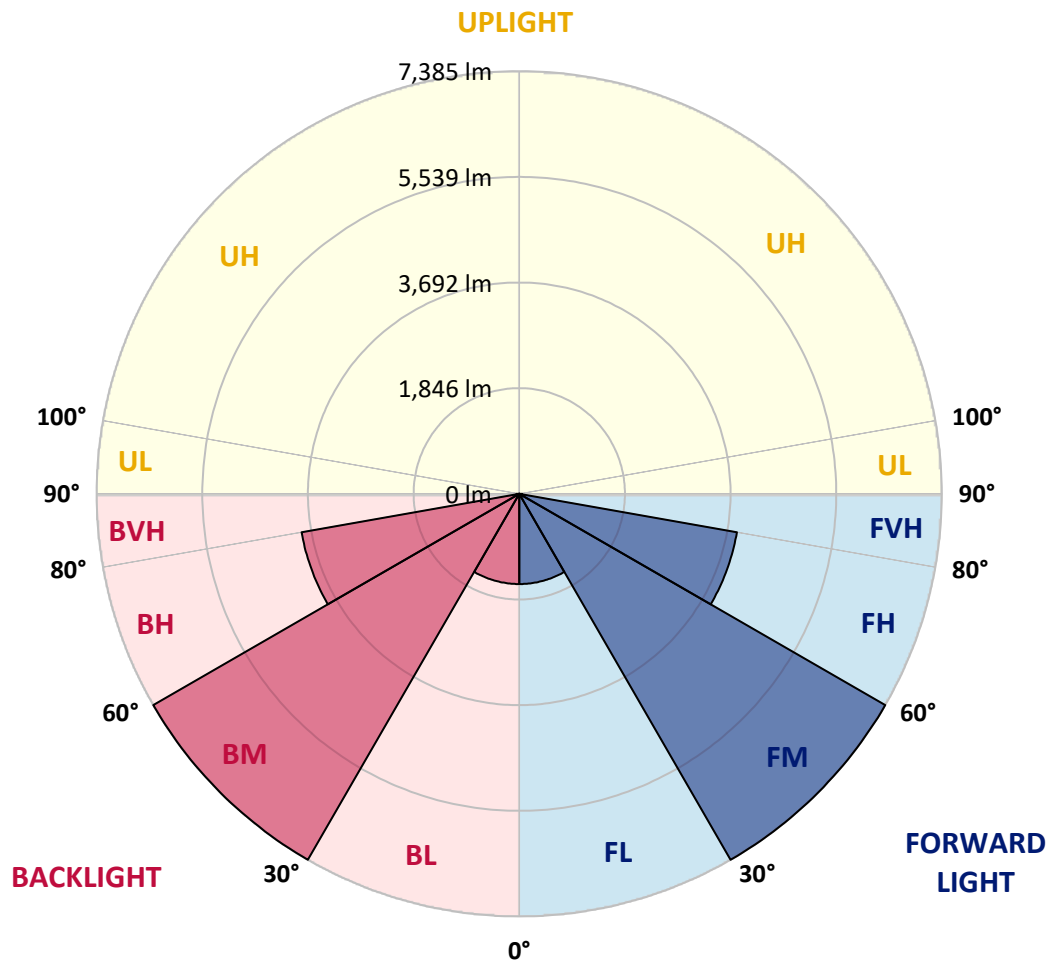
CATALOG NUMBER: NAV-SB5A-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1576.3	6.1			
FM	(30°-60°)	7384.9	28.7			
FH	(60°-80°)	3862.7	15.0			G2/5000
FVH	(80°-90°)	50.6	0.2			G1/100
BL	(0°-30°)	1576.3	6.1	B3/2500		
BM	(30°-60°)	7384.9	28.7	B4/8500		
BH	(60°-80°)	3862.7	15.0	B4/5000		G2/5000
BVH	(80°-90°)	50.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P967744

CATALOG NUMBER: NAV-SB5A-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3085.0	3074.7	3082.5	3076.0	3070.9	3065.7	3068.2	3077.4	3081.1	3082.5	3082.5
5°	3126.4	3117.3	3121.2	3121.2	3112.2	3109.6	3110.9	3117.3	3125.1	3125.1	3125.1
7.5°	3193.6	3184.6	3193.6	3188.4	3180.7	3178.1	3176.8	3181.9	3193.6	3193.6	3189.7
10°	3275.0	3264.6	3269.9	3267.2	3258.2	3254.3	3253.0	3260.7	3271.1	3269.9	3267.2
12.5°	3364.2	3352.5	3358.9	3351.2	3348.6	3344.8	3344.8	3343.4	3349.9	3344.8	3347.3
15°	3463.6	3455.8	3458.5	3453.2	3457.1	3454.6	3444.2	3439.1	3441.6	3433.9	3435.2
17.5°	3581.1	3563.1	3572.1	3569.6	3569.6	3574.7	3557.9	3551.4	3556.6	3548.9	3555.3
20°	3716.8	3698.7	3702.6	3697.4	3690.9	3696.2	3675.4	3680.7	3684.5	3679.3	3690.9
22.5°	3865.4	3842.1	3840.8	3843.4	3829.2	3830.5	3816.3	3829.2	3837.0	3822.7	3837.0
25°	4017.8	3993.3	4010.1	4003.6	3985.5	3989.4	3979.0	3992.0	3998.4	3980.4	4001.0
27.5°	4179.3	4162.5	4178.0	4181.9	4160.0	4175.4	4160.0	4171.5	4178.0	4150.8	4171.5
30°	4367.9	4351.1	4365.4	4375.6	4349.8	4374.4	4361.5	4369.2	4370.5	4338.2	4357.6
32.5°	4573.3	4547.5	4583.7	4588.8	4560.4	4590.2	4573.3	4583.7	4590.2	4546.2	4575.9
35°	4824.0	4791.7	4833.0	4826.5	4802.0	4826.5	4811.0	4826.5	4842.0	4789.1	4821.4
37.5°	5093.9	5060.4	5104.3	5092.7	5069.4	5086.3	5077.1	5087.5	5112.1	5055.2	5090.0
40°	5391.1	5349.8	5409.2	5388.5	5366.6	5363.9	5369.2	5375.6	5407.9	5344.6	5365.3
42.5°	5708.9	5665.0	5754.1	5721.9	5690.8	5670.2	5686.9	5699.9	5730.9	5659.8	5697.3
45°	6071.9	6021.6	6137.8	6099.1	6050.0	6007.3	6034.5	6053.9	6099.1	6013.8	6057.7
47.5°	6472.5	6415.6	6539.6	6528.0	6447.9	6354.9	6416.9	6472.5	6506.0	6402.7	6437.5
50°	6863.9	6819.9	6982.7	6997.0	6898.8	6768.3	6854.8	6938.8	6947.9	6812.2	6829.0
52.5°	7230.8	7186.9	7423.3	7512.4	7424.6	7269.5	7361.2	7446.5	7378.1	7202.4	7207.5
55°	7524.0	7487.8	7788.9	8018.9	8048.5	7920.7	7974.9	7972.3	7747.6	7477.5	7486.6
57.5°	7595.0	7589.9	7969.8	8456.8	8766.8	8782.3	8675.1	8401.2	7916.8	7553.7	7530.5
60°	7272.1	7304.5	7826.4	8685.4	9512.3	9855.9	9392.2	8610.5	7724.3	7220.4	7161.1
62.5°	6305.8	6391.1	7020.2	8406.4	10114.3	11091.0	9967.0	8292.8	6933.6	6276.1	6237.3
65°	4519.1	4667.6	5362.7	7174.0	10060.1	12176.2	9884.4	7115.8	5414.4	4656.1	4600.5
67.5°	2050.2	2201.4	2791.8	4911.8	8744.9	11881.6	8724.2	4963.5	2931.3	2209.2	2176.9
70°	742.8	768.6	958.6	1966.3	5588.8	9467.1	5827.7	1980.5	1019.3	819.1	808.7
72.5°	449.6	453.5	493.5	704.1	1941.8	5747.7	2024.4	727.3	503.9	447.0	454.8
75°	285.5	282.9	351.4	430.2	688.6	1939.1	722.2	430.2	350.1	319.1	321.6
77.5°	205.4	211.9	251.9	321.6	434.1	657.5	426.3	307.5	251.9	206.7	210.5
80°	153.8	157.6	183.5	250.6	304.9	409.5	271.3	227.3	189.9	129.1	133.0
82.5°	111.1	111.1	120.1	182.1	186.0	220.9	147.3	160.2	125.4	91.7	91.7
85°	65.9	64.6	74.9	108.5	96.9	81.4	67.1	98.2	78.8	56.9	55.6
87.5°	23.3	24.5	23.3	31.0	25.8	21.9	20.7	27.2	21.9	19.4	18.0
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)