

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: P971558

Luminaire Tested: **NAV-SB6D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57488.1 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

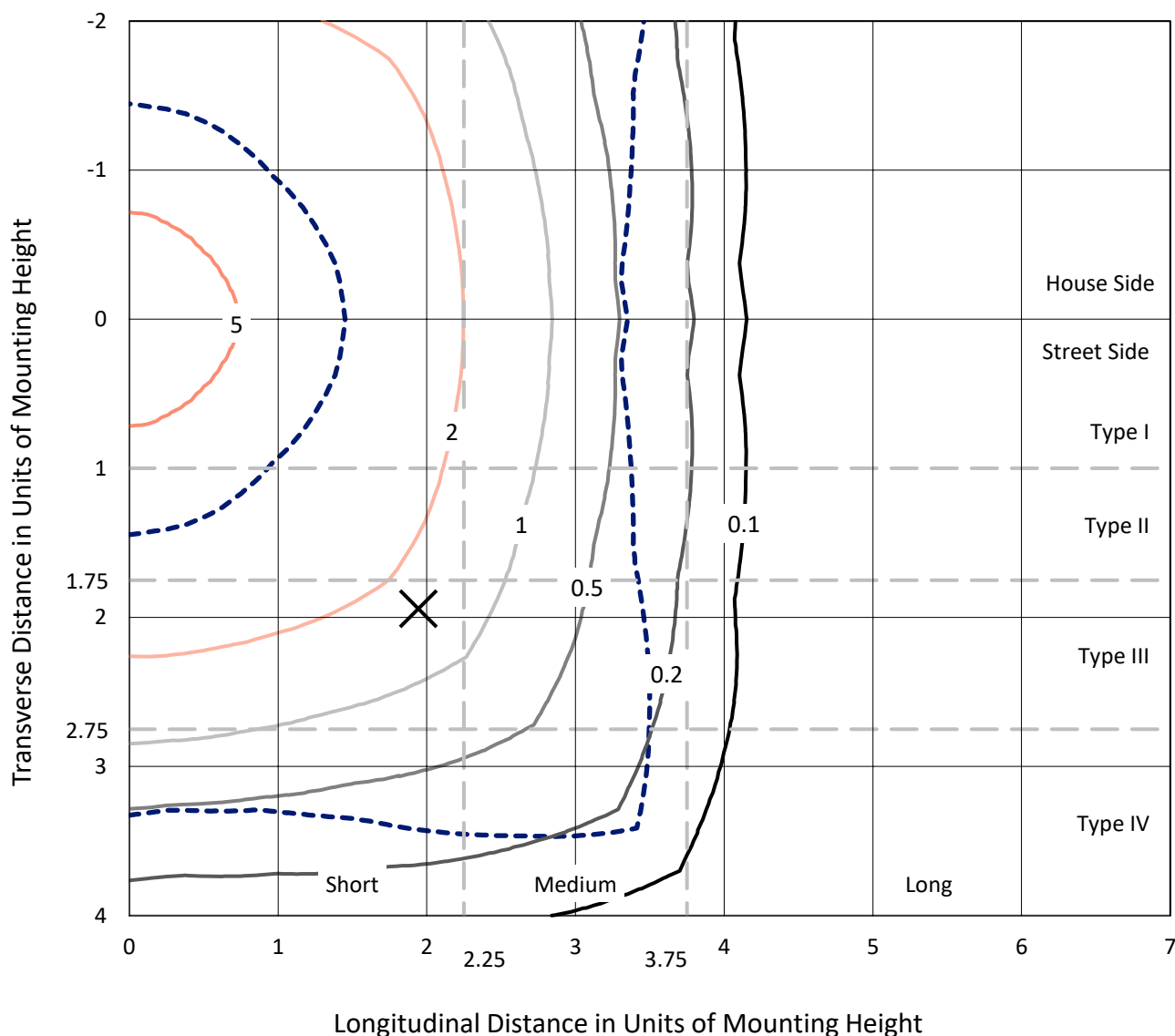
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

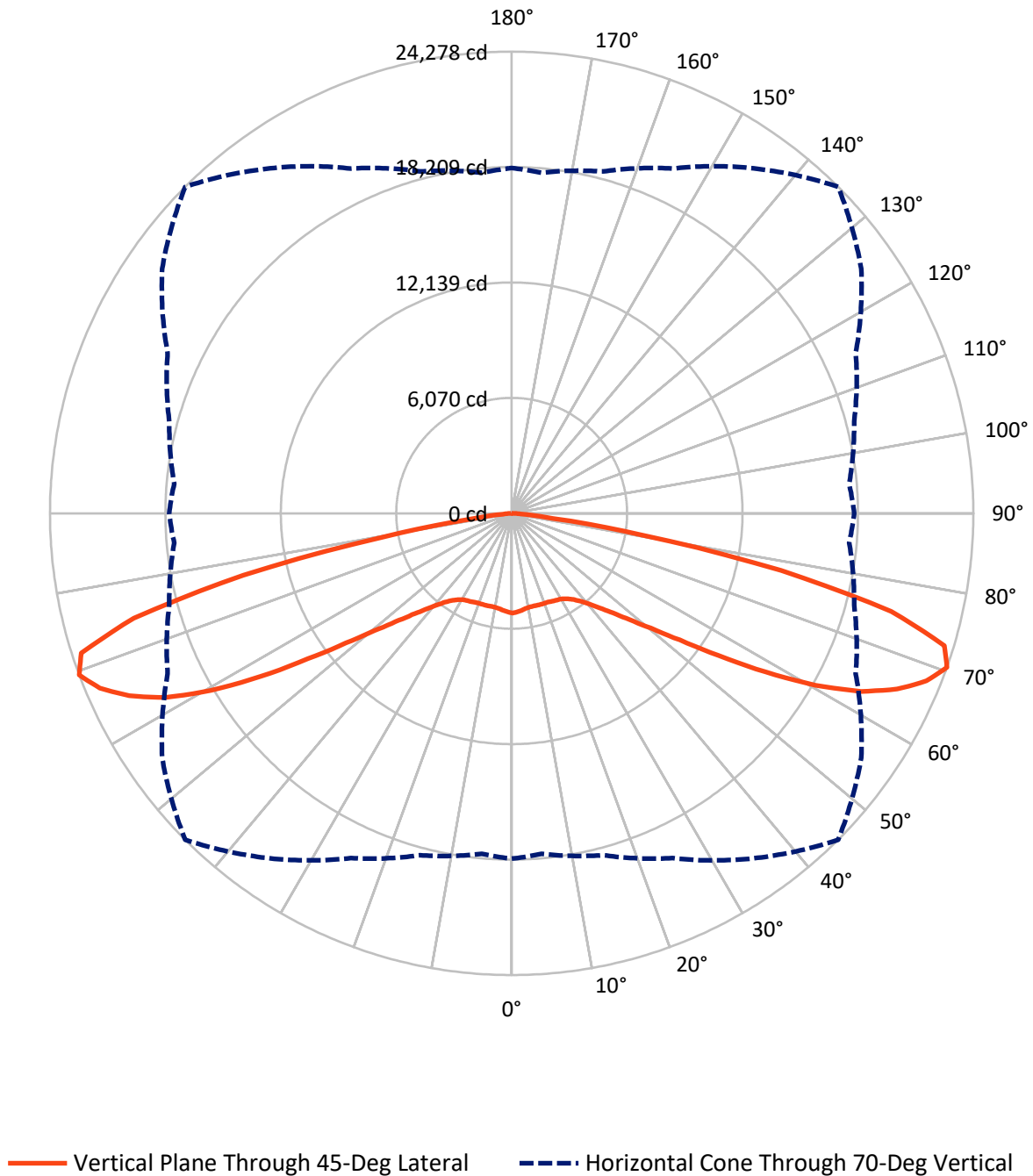
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28744.1	0.0	28744.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28744.1	0.0	28744.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	57488.1	0.0	57488.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	0.8
10°-20°	1432.4	2.5
20°-30°	2383.7	4.1
30°-40°	3604.8	6.3
40°-50°	5990.4	10.4
50°-60°	11303.6	19.7
60°-70°	19086.6	33.2
70°-80°	12541.9	21.8
80°-90°	657.1	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°	57488.1	100.0
0°-180°	57488.1	100.0

Coefficient of Utilization



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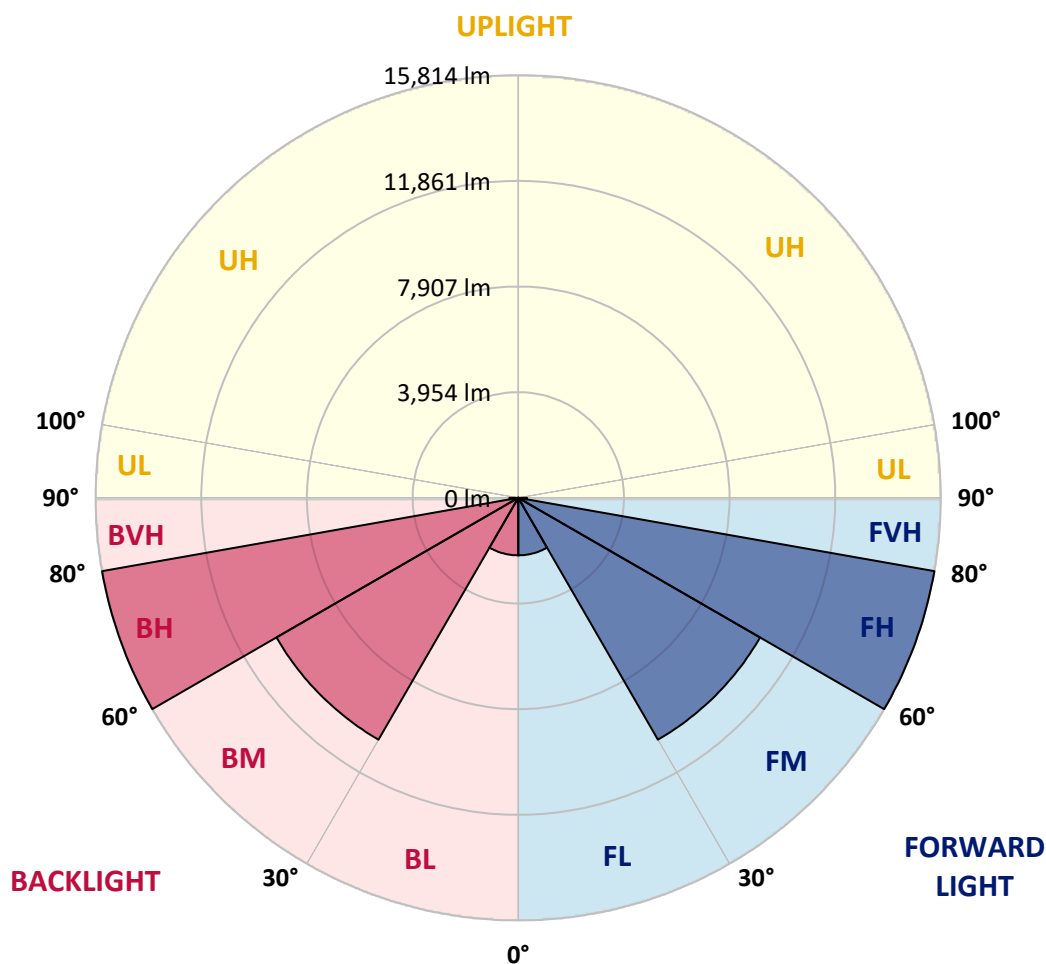
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2151.9	3.7			
FM	(30°-60°)	10449.4	18.2			
FH	(60°-80°)	15814.2	27.5			G5
FVH	(80°-90°)	328.5	0.6			G3/500
BL	(0°-30°)	2151.9	3.7	B3/2500		
BM	(30°-60°)	10449.4	18.2	B5		
BH	(60°-80°)	15814.2	27.5	B5		G5
BVH	(80°-90°)	328.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5244.1	5244.1	5244.1	5244.1	5244.1	5244.1	5244.1	5244.1	5244.1	5244.1	5244.1
2.5°	5211.2	5226.2	5220.2	5208.2	5208.2	5199.2	5208.2	5214.2	5223.2	5229.1	5226.2
5°	5142.5	5154.4	5151.4	5142.5	5145.5	5136.5	5142.5	5151.4	5157.4	5160.4	5160.4
7.5°	5082.8	5094.7	5088.7	5073.8	5073.8	5064.8	5067.8	5076.7	5085.7	5088.7	5088.7
10°	5067.8	5079.7	5061.8	5037.9	5029.0	5017.0	5019.9	5029.0	5046.9	5055.8	5055.8
12.5°	5073.8	5082.8	5064.8	5029.0	5019.9	5008.0	5008.0	5017.0	5040.8	5052.8	5055.8
15°	5091.7	5100.6	5073.8	5034.9	5026.0	5017.0	5014.0	5026.0	5052.8	5073.8	5076.7
17.5°	5124.6	5133.5	5091.7	5037.9	5026.0	5029.0	5026.0	5034.9	5076.7	5115.6	5115.6
20°	5154.4	5160.4	5103.7	5037.9	5026.0	5029.0	5026.0	5043.9	5097.6	5151.4	5154.4
22.5°	5163.4	5169.4	5115.6	5058.8	5049.9	5052.8	5049.9	5067.8	5118.5	5172.4	5172.4
25°	5166.4	5175.3	5133.5	5088.7	5103.7	5109.6	5103.7	5106.7	5145.5	5193.3	5190.3
27.5°	5211.2	5223.2	5184.3	5145.5	5154.4	5151.4	5160.4	5169.4	5199.2	5247.1	5235.1
30°	5303.9	5312.8	5280.0	5241.1	5235.1	5214.2	5241.1	5271.0	5303.9	5345.7	5336.7
32.5°	5456.3	5474.1	5432.3	5390.5	5363.6	5351.6	5372.5	5423.4	5468.2	5513.0	5495.0
35°	5710.2	5722.2	5683.3	5605.6	5557.9	5557.9	5575.8	5641.5	5713.2	5769.9	5749.0
37.5°	6068.8	6083.7	6015.0	5922.3	5850.7	5850.7	5874.6	5943.3	6050.9	6131.5	6101.6
40°	6505.1	6526.0	6439.4	6343.7	6274.9	6263.1	6292.9	6370.6	6472.2	6573.7	6540.9
42.5°	7031.0	7054.9	6941.3	6857.7	6803.8	6803.8	6818.8	6890.5	6983.1	7108.7	7099.7
45°	7703.3	7745.1	7589.7	7506.1	7455.2	7467.2	7476.1	7538.9	7622.6	7766.0	7760.1
47.5°	8504.1	8545.9	8381.5	8294.9	8285.9	8342.7	8306.9	8351.7	8396.5	8560.8	8513.0
50°	9412.5	9484.1	9370.7	9364.6	9382.5	9487.2	9403.5	9427.3	9376.6	9481.1	9418.4
52.5°	10524.0	10628.6	10607.7	10643.5	10843.8	11058.8	10867.7	10783.9	10592.8	10625.6	10515.1
55°	11871.7	12030.0	12059.8	12275.0	12729.2	13168.5	12762.1	12424.4	12018.0	11943.3	11826.9
57.5°	13404.5	13530.0	13673.4	14112.7	14961.3	15741.2	14961.3	14214.3	13574.8	13422.5	13314.9
60°	15054.0	15209.4	15346.8	15995.2	17256.2	18352.7	17232.2	16046.0	15200.3	14994.2	14814.9
62.5°	16825.9	17026.1	17121.7	17841.8	19311.9	20620.7	19332.8	17895.6	16957.3	16736.2	16556.9
65°	18526.1	18690.5	18798.0	19565.9	20970.4	22282.1	21065.9	19649.6	18684.4	18394.6	18251.1
67.5°	19318.0	19407.6	19670.5	20540.1	22022.1	23519.1	22273.1	20632.6	19554.0	19046.0	19052.0
70°	18158.6	17976.2	18609.8	20002.2	22147.6	24278.1	22434.5	19960.3	18639.6	17814.9	18012.1
72.5°	14032.0	13718.3	14817.9	17199.4	20713.4	23794.0	20856.8	17333.9	15502.1	13828.8	14244.1
75°	7634.5	7278.9	8796.9	11808.9	16518.1	20623.7	16897.5	12146.6	9794.9	7577.7	8070.7
77.5°	2154.4	2020.0	3245.0	5713.2	9935.3	14480.2	10317.9	5838.7	3848.7	2282.9	2536.9
80°	660.4	639.5	866.5	1721.2	4219.2	6935.4	4054.8	1742.1	1102.6	696.2	735.0
82.5°	391.4	358.5	430.3	627.5	1075.7	2178.3	1045.8	654.4	525.9	352.6	382.4
85°	224.1	209.2	254.0	304.8	361.5	463.2	301.8	310.8	280.8	188.3	197.2
87.5°	92.7	83.6	98.6	95.6	83.6	107.5	80.7	95.6	113.6	74.7	68.7
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)