

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: P970910

Luminaire Tested: **NAV-SB6C-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50712.9 lumens
Efficiency: N/A
Efficacy: 168.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 300.9
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

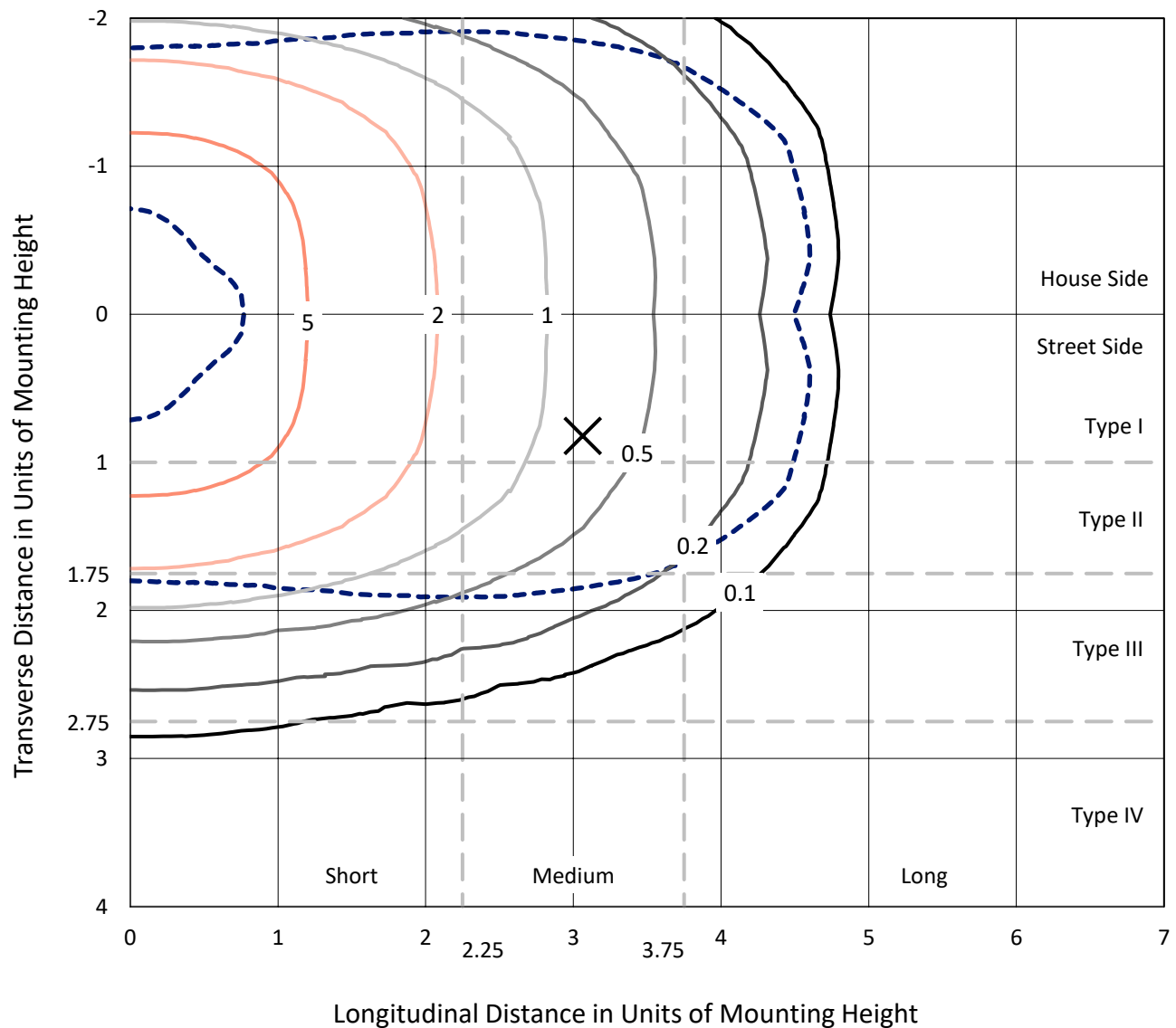


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Iso-Footcandle Lines of Horizontal Illumination

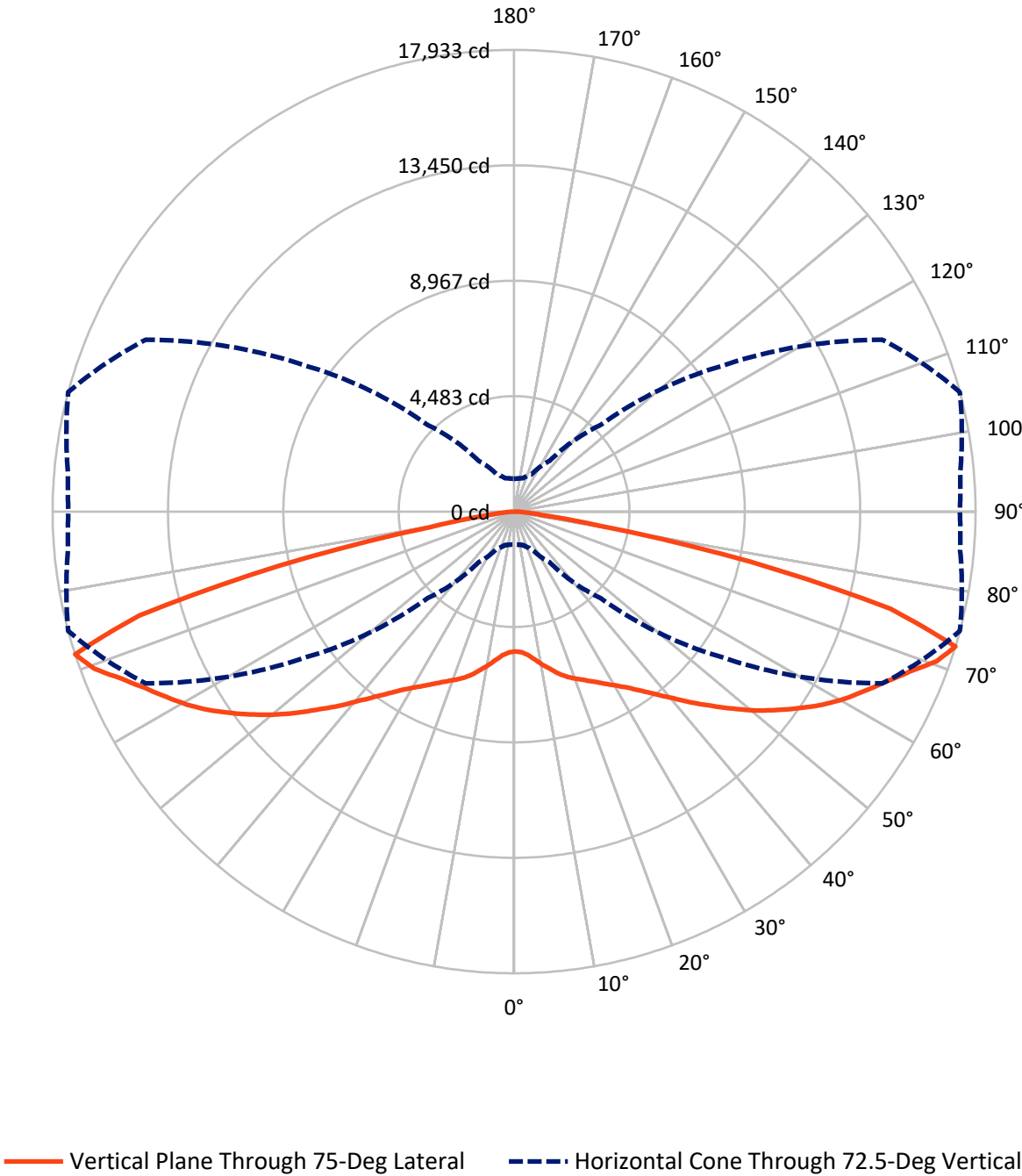
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25356.5	0.0	25356.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25356.5	0.0	25356.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50712.9	0.0	50712.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.1	1.0
10°-20°	1755.1	3.5
20°-30°	3391.4	6.7
30°-40°	5726.5	11.3
40°-50°	9081.6	17.9
50°-60°	12159.2	24.0
60°-70°	11571.7	22.8
70°-80°	6038.3	11.9
80°-90°	457.1	0.9
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°	50712.9	100.0
0°-180°	50712.9	100.0

Coefficient of Utilization



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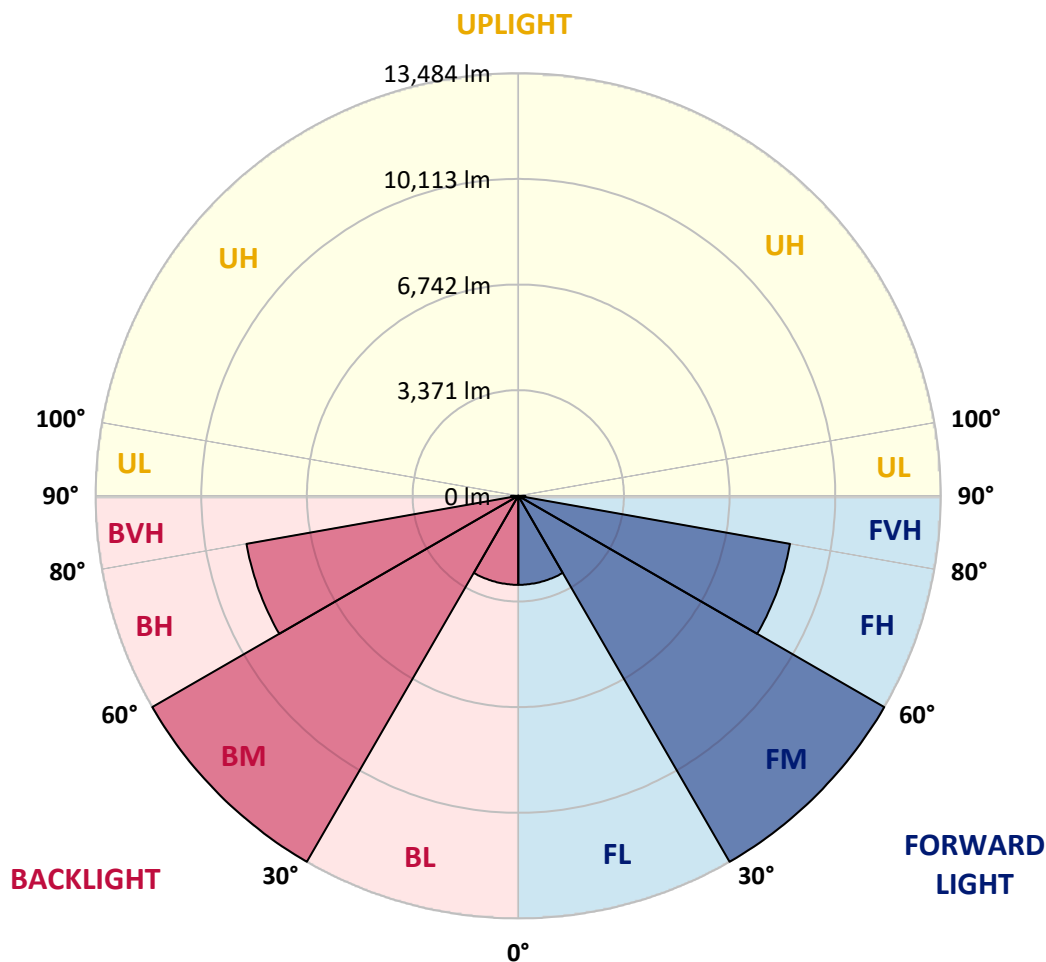
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2839.3	5.6			
FM	(30°-60°)	13483.6	26.6			
FH	(60°-80°)	8805.0	17.4			G4/12000
FVH	(80°-90°)	228.5	0.5			G3/500
BL	(0°-30°)	2839.3	5.6	B4/5000		
BM	(30°-60°)	13483.6	26.6	B5		
BH	(60°-80°)	8805.0	17.4	B5		G5
BVH	(80°-90°)	228.5	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3
2.5°	5432.3	5427.1	5432.3	5437.4	5434.9	5434.9	5447.8	5455.6	5471.1	5468.5	5465.9
5°	5396.0	5393.4	5414.2	5437.4	5455.6	5486.6	5525.5	5554.0	5590.2	5597.9	5597.9
7.5°	5377.9	5370.1	5406.4	5447.8	5504.8	5582.5	5657.5	5735.2	5797.3	5818.1	5823.2
10°	5390.8	5393.4	5442.6	5520.3	5611.0	5719.7	5825.8	5957.9	6046.0	6066.7	6087.4
12.5°	5450.3	5445.2	5528.0	5652.4	5776.6	5913.8	6038.2	6183.1	6278.9	6328.1	6348.8
15°	5559.1	5548.7	5665.3	5849.2	6030.4	6190.9	6291.9	6429.1	6540.4	6602.6	6625.9
17.5°	5688.5	5693.8	5846.5	6084.7	6322.9	6504.2	6600.0	6669.9	6755.4	6809.8	6835.6
20°	5916.4	5926.9	6097.7	6379.9	6651.8	6858.9	6936.6	6910.8	6934.0	6975.4	7006.5
22.5°	6222.0	6227.2	6418.8	6724.3	7009.2	7237.0	7288.8	7182.6	7117.9	7146.3	7167.1
25°	6576.7	6610.3	6802.0	7115.2	7407.9	7625.4	7648.7	7488.1	7327.6	7335.4	7348.3
27.5°	7009.2	7040.2	7234.3	7545.1	7842.9	8031.9	8029.2	7814.4	7578.7	7519.2	7537.3
30°	7477.8	7511.4	7710.8	8031.9	8309.0	8474.6	8438.4	8182.1	7845.5	7734.1	7747.1
32.5°	8034.5	8055.2	8257.1	8578.2	8834.6	8966.6	8891.5	8575.7	8156.1	8029.2	8060.4
35°	8707.7	8738.7	8888.9	9191.9	9417.1	9525.8	9399.0	9026.2	8554.9	8412.5	8433.2
37.5°	9476.6	9455.9	9626.9	9896.2	10082.5	10149.9	9976.4	9533.6	9010.6	8842.3	8873.4
40°	10279.3	10269.0	10455.4	10714.3	10815.3	10856.8	10600.4	10116.2	9536.2	9355.0	9414.5
42.5°	11007.0	10999.2	11250.3	11537.7	11659.4	11612.8	11289.1	10735.0	10144.7	9937.6	9989.3
45°	11589.5	11579.1	11887.2	12291.2	12529.4	12451.7	12016.7	11418.6	10761.0	10546.0	10595.2
47.5°	12037.5	12042.6	12374.0	12873.8	13290.7	13319.2	12759.8	12115.1	11439.3	11196.0	11268.4
50°	12361.1	12376.7	12731.4	13285.4	13855.1	14106.3	13518.5	12829.7	12141.0	11866.5	11949.4
52.5°	12441.3	12469.8	12897.1	13547.0	14217.6	14696.7	14290.1	13516.0	12806.5	12545.0	12612.3
55°	12014.1	12071.1	12612.3	13526.3	14440.3	15085.0	14968.5	14212.4	13477.1	13207.8	13282.9
57.5°	11032.8	11113.0	11744.9	12938.5	14391.1	15351.7	15494.1	14880.4	14147.7	13888.7	13948.3
60°	9658.0	9753.7	10359.6	11662.0	13697.2	15450.1	15864.3	15530.4	14763.9	14512.8	14567.2
62.5°	7584.0	7708.2	8433.2	9960.8	12231.6	14991.8	16180.2	16118.1	15318.0	15004.8	15041.0
65°	4865.2	4997.3	5761.1	7565.8	10276.8	13588.4	16278.6	16690.4	15903.2	15465.6	15520.0
67.5°	2933.7	2993.2	3371.2	4585.5	7511.4	11473.0	15444.9	17324.8	16586.8	16043.0	16084.5
70°	1877.2	1910.9	2136.1	2692.8	4246.4	8371.1	13378.7	17443.9	17415.4	16636.0	16630.8
72.5°	1273.9	1284.2	1343.8	1595.0	2402.8	4756.5	9867.7	15791.9	17933.2	17399.8	17317.0
75°	932.1	989.1	1084.9	1128.9	1364.6	2377.0	5654.9	11095.0	15113.5	15346.5	14782.0
77.5°	693.9	696.5	828.6	880.4	973.5	1266.2	2392.5	6193.5	9383.5	9852.1	8787.9
80°	587.7	556.7	554.1	709.5	732.8	789.8	1069.4	2138.8	3360.9	2037.7	1540.6
82.5°	489.3	455.7	411.7	554.1	499.7	484.2	463.5	870.0	1069.4	525.6	447.9
85°	341.7	326.3	310.7	362.5	284.8	243.4	222.6	406.5	450.5	222.6	196.8
87.5°	147.6	152.7	155.4	160.5	119.1	85.5	85.5	113.9	113.9	88.0	64.8
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)