

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: P968399

Luminaire Tested: **NAV-SB5B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968399
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-SB5B-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26978 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 182.7
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

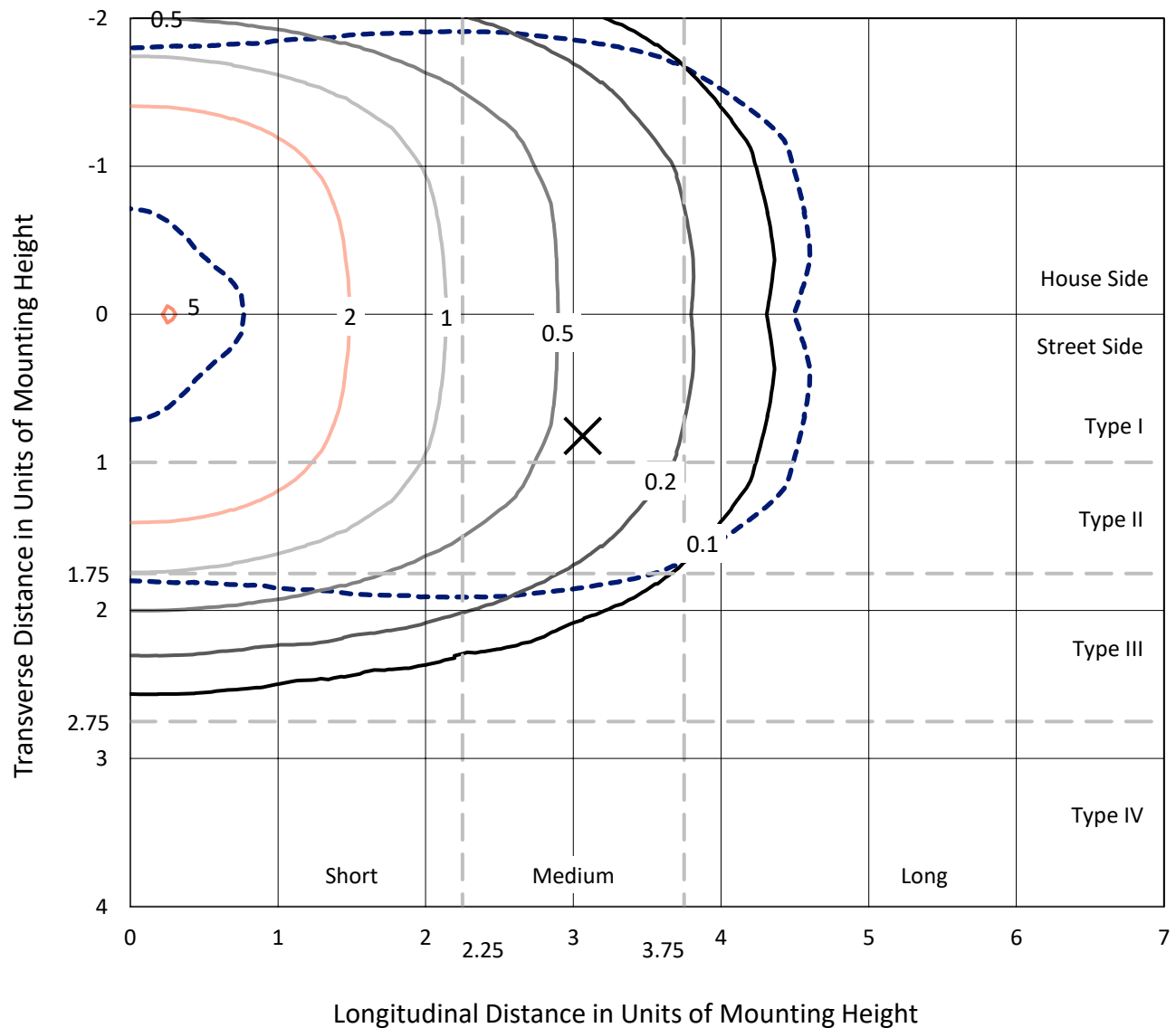


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Iso-Footcandle Lines of Horizontal Illumination

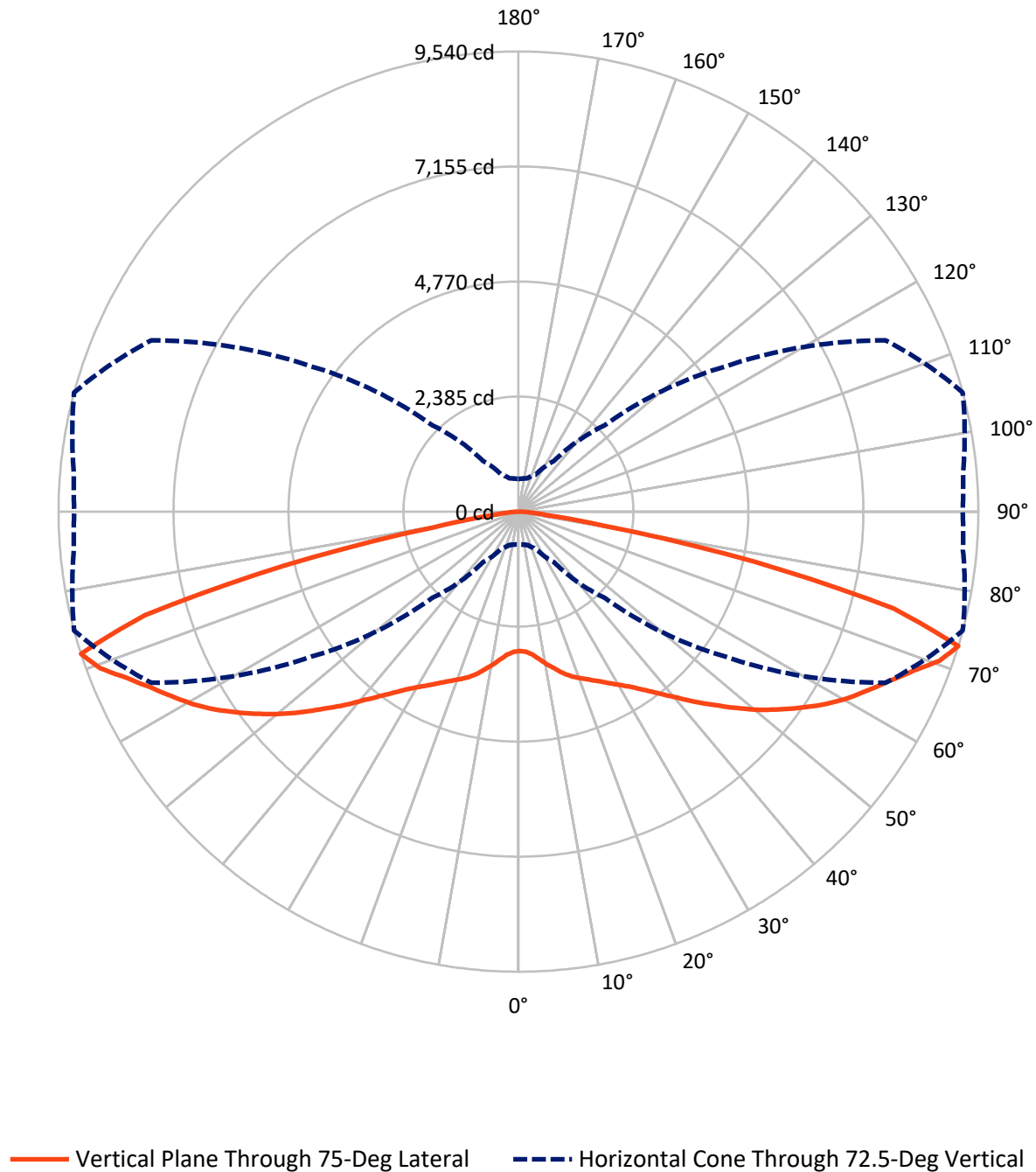
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	13489.0	0.0	13489.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13489.0	0.0	13489.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26978.0	0.0	26978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	1.0
10°-20°	933.7	3.5
20°-30°	1804.1	6.7
30°-40°	3046.4	11.3
40°-50°	4831.2	17.9
50°-60°	6468.4	24.0
60°-70°	6155.8	22.8
70°-80°	3212.2	11.9
80°-90°	243.1	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°	26978.0	100.0
0°-180°	26978.0	100.0

Coefficient of Utilization



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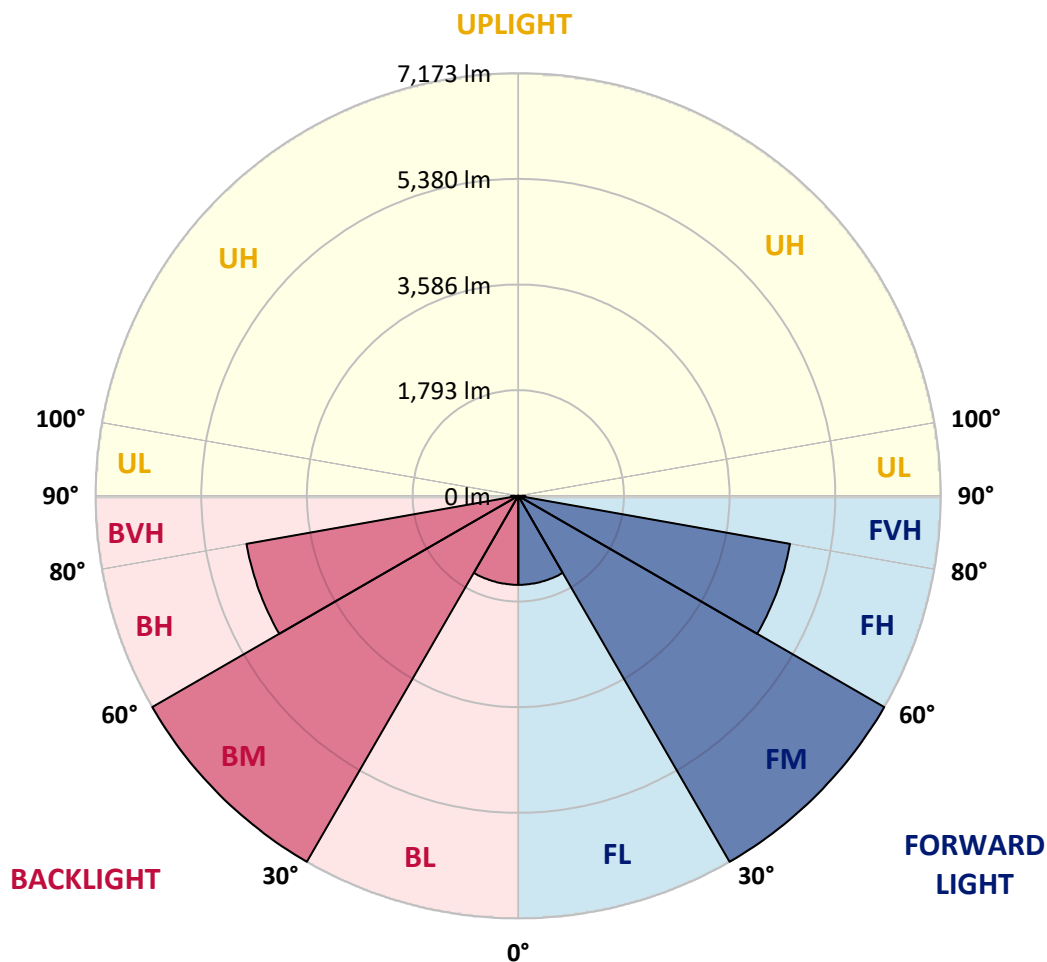
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.4	5.6			
FM	(30°-60°)	7173.0	26.6			
FH	(60°-80°)	4684.0	17.4			G2/5000
FVH	(80°-90°)	121.6	0.5			G2/225
BL	(0°-30°)	1510.4	5.6	B3/2500		
BM	(30°-60°)	7173.0	26.6	B4/8500		
BH	(60°-80°)	4684.0	17.4	B4/5000		G4/5000
BVH	(80°-90°)	121.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8
2.5°	2889.8	2887.1	2889.8	2892.5	2891.2	2891.2	2898.1	2902.2	2910.5	2909.2	2907.7
5°	2870.5	2869.2	2880.1	2892.5	2902.2	2918.8	2939.4	2954.6	2973.8	2977.9	2977.9
7.5°	2860.9	2856.8	2876.0	2898.1	2928.4	2969.7	3009.7	3051.0	3084.0	3095.1	3097.9
10°	2867.7	2869.2	2895.3	2936.6	2984.9	3042.7	3099.2	3169.4	3216.2	3227.3	3238.3
12.5°	2899.4	2896.8	2940.8	3006.9	3073.1	3146.0	3212.1	3289.3	3340.3	3366.4	3377.5
15°	2957.3	2951.8	3013.8	3111.6	3208.0	3293.4	3347.1	3420.1	3479.4	3512.5	3524.8
17.5°	3026.2	3029.0	3110.3	3237.0	3363.6	3460.1	3511.0	3548.2	3593.6	3622.7	3636.4
20°	3147.4	3152.9	3243.8	3394.0	3538.6	3648.8	3690.1	3676.4	3688.8	3710.8	3727.3
22.5°	3309.9	3312.7	3414.6	3577.1	3728.6	3849.9	3877.5	3821.0	3786.6	3801.7	3812.7
25°	3498.6	3516.6	3618.5	3785.1	3940.8	4056.5	4068.9	3983.5	3898.1	3902.3	3909.1
27.5°	3728.6	3745.2	3848.5	4013.8	4172.2	4272.7	4271.4	4157.1	4031.7	4000.1	4009.7
30°	3978.0	3995.9	4101.9	4272.7	4420.1	4508.3	4489.0	4352.7	4173.6	4114.3	4121.2
32.5°	4274.1	4285.1	4392.6	4563.4	4699.7	4770.0	4730.1	4562.0	4338.8	4271.4	4287.9
35°	4632.3	4648.8	4728.6	4889.9	5009.7	5067.5	5000.1	4801.7	4551.0	4475.3	4486.2
37.5°	5041.4	5030.3	5121.2	5264.5	5363.7	5399.5	5307.2	5071.7	4793.4	4703.9	4720.4
40°	5468.4	5462.8	5562.1	5699.7	5753.5	5775.6	5639.1	5381.6	5073.0	4976.6	5008.3
42.5°	5855.4	5851.3	5984.9	6137.8	6202.5	6177.8	6005.6	5710.8	5396.7	5286.5	5314.1
45°	6165.4	6159.8	6323.7	6538.6	6665.4	6624.1	6392.6	6074.5	5724.5	5610.2	5636.4
47.5°	6403.6	6406.4	6582.7	6848.5	7070.2	7085.4	6788.0	6445.0	6085.4	5956.0	5994.5
50°	6575.8	6584.1	6772.8	7067.6	7370.6	7504.2	7191.5	6825.1	6458.7	6312.7	6356.7
52.5°	6618.5	6633.7	6860.9	7206.7	7563.4	7818.2	7602.0	7190.2	6812.8	6673.6	6709.4
55°	6391.2	6421.5	6709.4	7195.6	7681.9	8024.8	7962.8	7560.7	7169.5	7026.2	7066.1
57.5°	5869.2	5911.9	6248.0	6883.0	7655.7	8166.7	8242.4	7916.1	7526.3	7388.5	7420.2
60°	5137.8	5188.8	5511.0	6203.9	7286.5	8219.1	8439.4	8261.8	7854.1	7720.4	7749.4
62.5°	4034.5	4100.6	4486.2	5298.9	6506.9	7975.2	8607.5	8574.4	8148.9	7982.2	8001.5
65°	2588.1	2658.4	3064.7	4024.9	5466.9	7228.7	8659.8	8878.9	8460.1	8227.4	8256.3
67.5°	1560.7	1592.3	1793.4	2439.4	3995.9	6103.4	8216.3	9216.3	8823.7	8534.5	8556.5
70°	998.7	1016.5	1136.4	1432.5	2259.0	4453.2	7117.1	9279.6	9264.6	8850.0	8847.2
72.5°	677.7	683.2	714.8	848.5	1278.3	2530.3	5249.3	8400.9	9540.0	9256.3	9212.2
75°	495.9	526.1	577.2	600.5	725.9	1264.4	3008.3	5902.3	8040.0	8163.9	7863.7
77.5°	369.1	370.5	440.7	468.3	517.9	673.5	1272.7	3294.8	4991.8	5241.1	4674.9
80°	312.6	296.1	294.8	377.4	389.8	420.1	568.9	1137.8	1787.9	1084.0	819.6
82.5°	260.3	242.4	219.0	294.8	265.9	257.6	246.5	462.8	568.9	279.6	238.3
85°	181.8	173.5	165.3	192.8	151.5	129.5	118.5	216.3	239.6	118.5	104.7
87.5°	78.5	81.3	82.6	85.4	63.3	45.4	45.4	60.6	60.6	46.8	34.4
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)