

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: P962954

Luminaire Tested: **NAV-SB2D-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20635.3 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

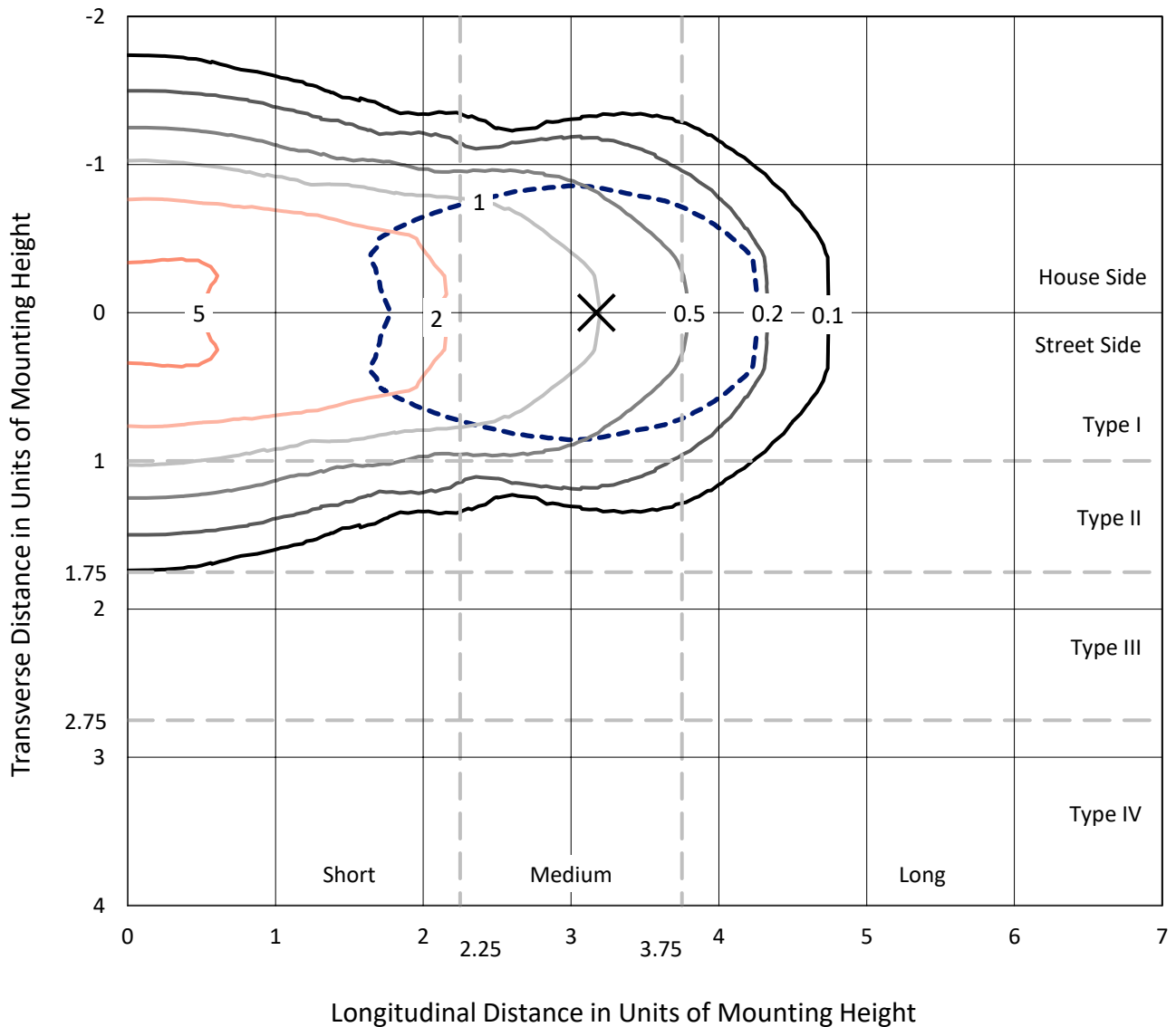
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962954
 CATALOG NUMBER: NAV-SB2D-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

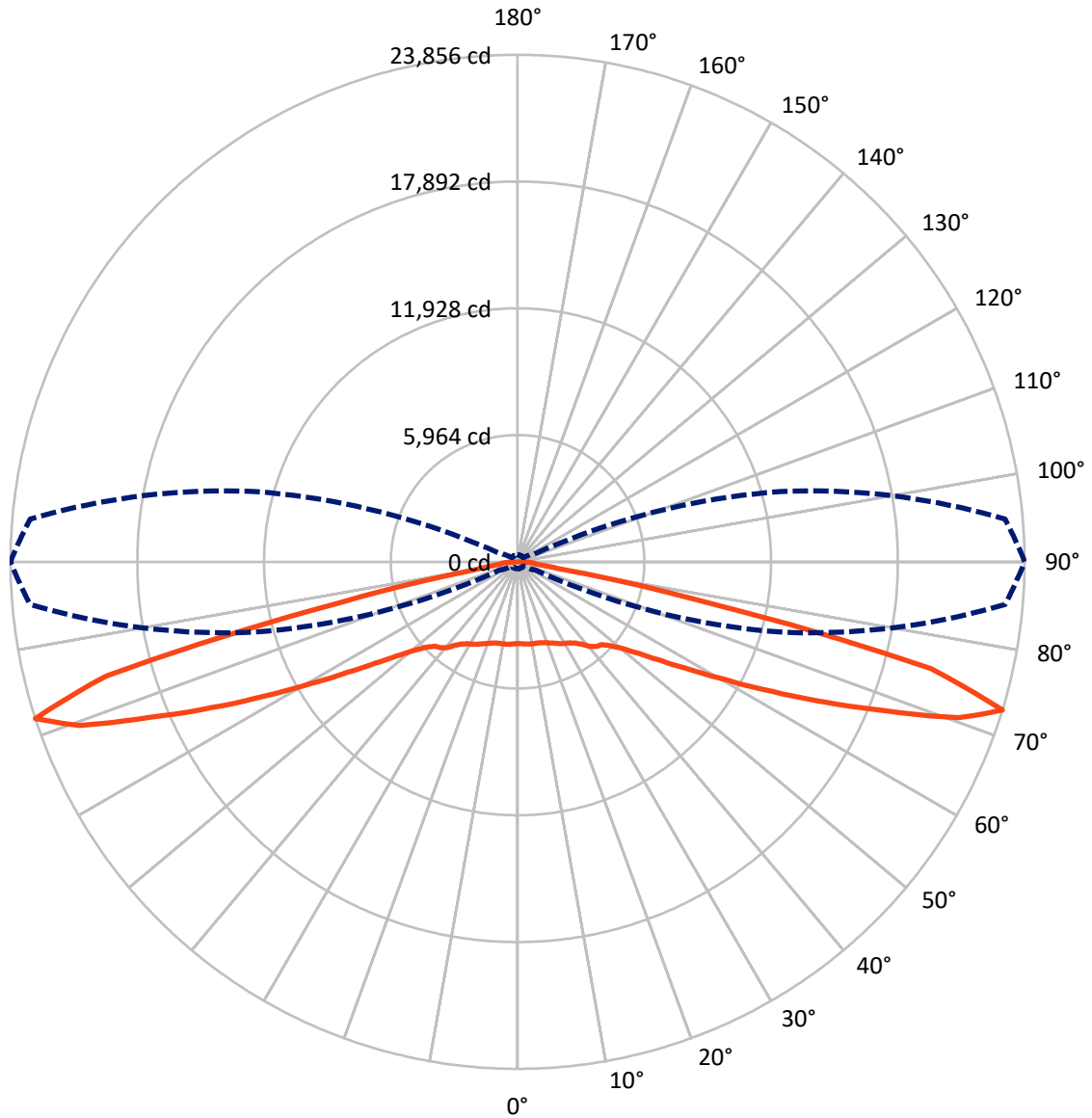
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

REPORT NUMBER: P962954
CATALOG NUMBER: NAV-SB2D-730-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P962954
 CATALOG NUMBER: NAV-SB2D-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10317.7	0.0	10317.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10317.7	0.0	10317.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20635.3	0.0	20635.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	1.8
10°-20°	1143.2	5.5
20°-30°	1906.1	9.2
30°-40°	2621.5	12.7
40°-50°	3201.6	15.5
50°-60°	3703.0	17.9
60°-70°	4415.2	21.4
70°-80°	3081.5	14.9
80°-90°	189.3	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°	20635.3	100.0
0°-180°	20635.3	100.0

Coefficient of Utilization

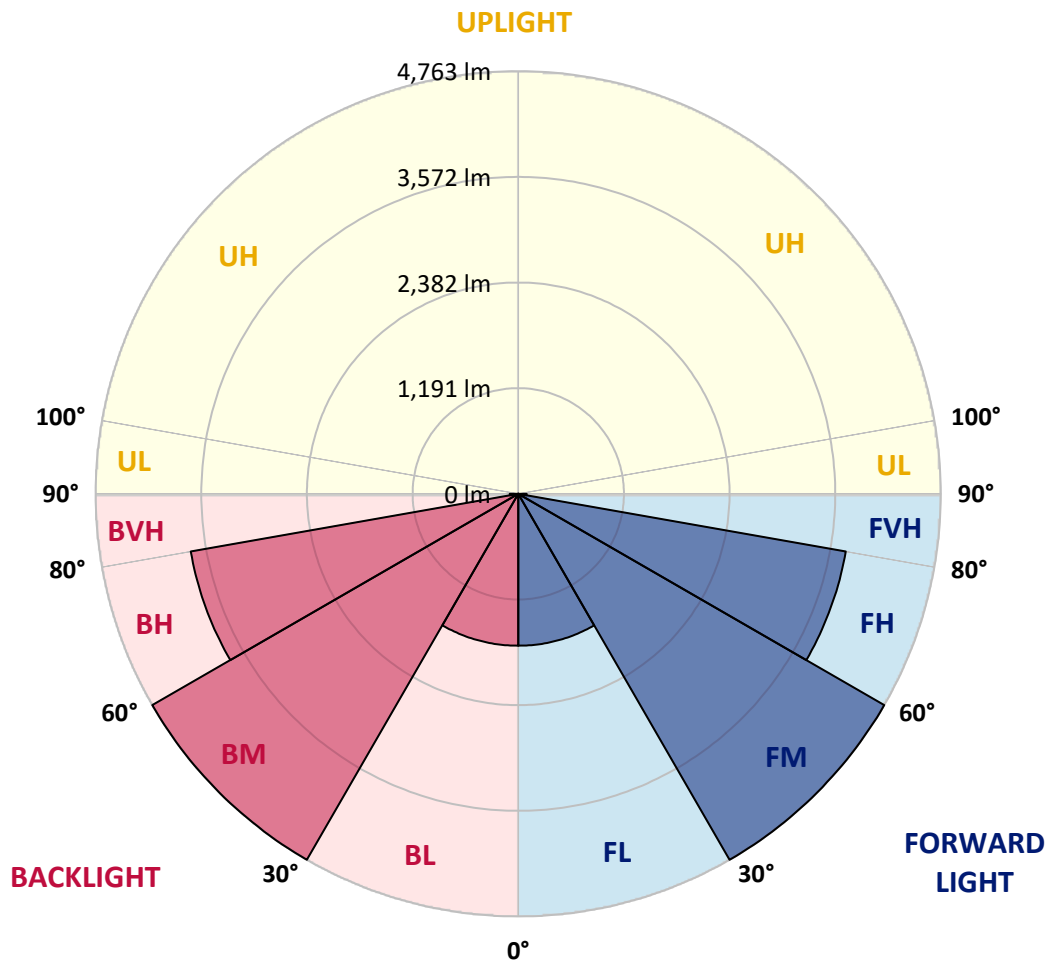


REPORT NUMBER: P962954
 CATALOG NUMBER: NAV-SB2D-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.6	8.3			
FM (30°-60°)	4763.1	23.1			
FH (60°-80°)	3748.4	18.2			G2/5000
FVH (80°-90°)	94.6	0.5			G1/100
BL (0°-30°)	1711.6	8.3	B3/2500		
BM (30°-60°)	4763.1	23.1	B3/5000		
BH (60°-80°)	3748.4	18.2	B4/5000		G4/5000
BVH (80°-90°)	94.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short



REPORT NUMBER: P962954
 CATALOG NUMBER: NAV-SB2D-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9	3855.9
2.5°	3859.2	3863.6	3863.6	3860.4	3867.9	3861.4	3861.4	3858.1	3861.4	3858.1	3858.1
5°	3878.9	3884.4	3886.6	3885.6	3895.4	3889.9	3889.9	3885.6	3886.6	3883.3	3883.3
7.5°	3916.2	3923.9	3928.3	3933.7	3948.1	3941.4	3937.1	3923.9	3918.5	3909.7	3909.7
10°	3928.3	3937.1	3951.4	3979.9	4012.8	4013.8	4000.7	3967.8	3942.6	3922.8	3919.5
12.5°	3891.0	3903.1	3932.7	3990.8	4064.3	4094.0	4073.0	4018.2	3968.9	3933.7	3928.3
15°	3843.9	3857.0	3902.0	3989.7	4098.3	4167.3	4165.2	4092.8	4013.8	3959.1	3950.2
17.5°	3770.4	3783.6	3848.3	3971.1	4124.6	4238.7	4269.3	4194.8	4084.0	4010.5	3998.5
20°	3637.7	3649.7	3739.7	3911.8	4133.4	4314.3	4394.4	4328.6	4190.4	4090.6	4072.0
22.5°	3465.5	3484.2	3589.4	3809.8	4112.5	4393.3	4537.0	4492.0	4314.3	4176.2	4150.9
25°	3281.2	3301.0	3423.8	3684.9	4058.8	4450.3	4705.9	4677.4	4454.8	4282.6	4247.4
27.5°	3122.3	3143.1	3276.9	3561.0	3975.5	4472.3	4872.5	4886.8	4624.7	4399.9	4362.6
30°	2997.2	3017.0	3159.6	3461.1	3867.9	4450.3	5018.4	5117.1	4797.9	4501.9	4448.1
32.5°	2860.2	2885.4	3035.6	3339.3	3740.7	4397.7	5145.6	5366.1	4998.6	4611.6	4543.5
35°	2686.8	2709.9	2867.8	3172.7	3574.1	4313.2	5252.0	5642.4	5286.0	4778.2	4702.6
37.5°	2476.3	2498.2	2655.1	2964.3	3408.4	4194.8	5333.2	5953.9	5628.2	5018.4	4917.5
40°	2264.6	2285.4	2432.4	2731.8	3210.0	4043.4	5361.7	6258.8	6020.7	5348.6	5241.0
42.5°	2070.5	2089.2	2224.0	2502.6	2987.4	3850.4	5324.4	6524.1	6372.8	5578.8	5440.6
45°	1891.7	1908.2	2027.8	2287.7	2755.9	3615.8	5212.5	6809.3	6791.8	5743.3	5556.8
47.5°	1687.8	1704.3	1828.2	2079.3	2524.6	3340.5	5022.8	7090.0	7374.1	6116.2	5901.2
50°	1438.8	1453.1	1580.3	1839.2	2284.4	3047.6	4759.6	7310.5	8108.9	6681.0	6411.2
52.5°	1143.8	1159.2	1283.1	1541.9	1999.3	2733.0	4413.0	7454.1	8957.7	7505.7	7173.4
55°	851.1	862.0	969.4	1201.9	1646.2	2374.3	3978.7	7494.7	9920.6	8633.1	8217.4
57.5°	617.5	624.0	693.1	866.3	1248.0	1925.8	3451.3	7389.4	11066.6	10078.5	9555.4
60°	500.1	502.2	523.2	599.9	867.5	1419.1	2814.0	7027.5	12310.2	11941.8	11282.6
62.5°	454.1	454.1	459.5	480.3	586.7	936.5	2043.1	6277.4	13643.8	14296.3	13413.5
65°	422.2	422.2	424.5	434.3	462.8	596.6	1289.7	5055.7	14767.9	17054.5	15938.0
67.5°	393.7	394.8	393.7	397.0	413.5	440.9	747.9	3491.9	15373.3	19912.4	18707.2
70°	364.1	366.3	360.8	360.8	373.9	375.0	468.3	1914.8	14871.0	22307.6	21990.7
72.5°	329.0	332.3	323.5	321.3	331.2	326.8	352.0	919.0	12767.5	23022.6	23856.1
75°	298.3	302.7	282.9	277.5	277.5	274.2	286.3	471.6	8286.5	18780.7	20087.8
77.5°	270.9	279.6	247.8	230.3	225.9	216.1	233.6	288.4	3624.5	8817.3	8634.2
80°	223.8	235.7	204.0	183.2	175.5	164.5	184.2	201.8	1078.0	2047.5	1960.8
82.5°	166.7	172.2	144.7	130.5	123.9	116.2	138.2	140.4	351.0	724.9	819.2
85°	106.4	108.5	88.9	76.8	73.5	70.2	87.7	76.8	133.8	533.0	774.3
87.5°	37.3	42.7	34.0	30.7	32.9	27.4	40.6	23.1	37.3	376.2	466.1
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)