

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: P885445

Luminaire Tested: **NAV-SB6D-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55374 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

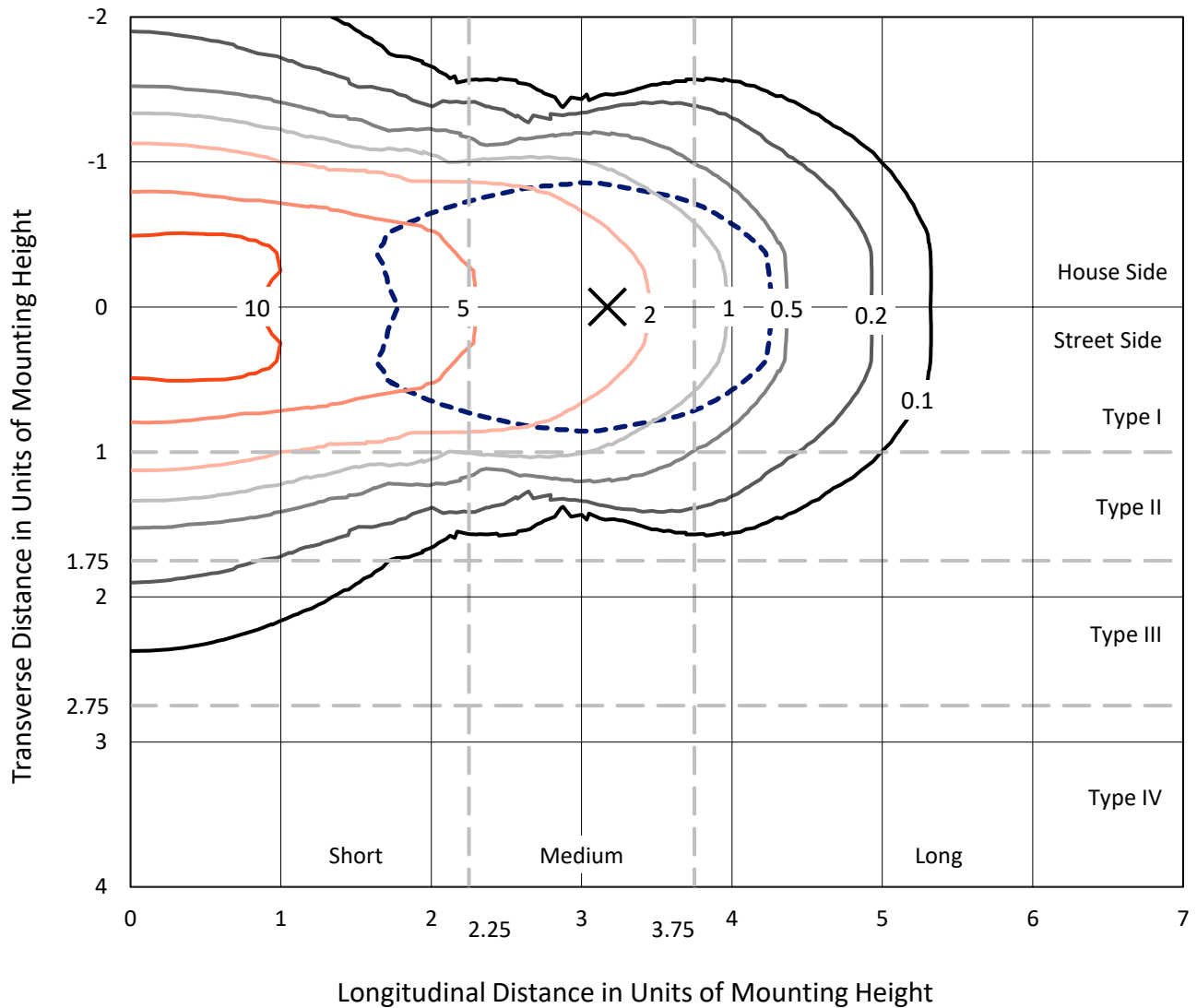
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885445
 CATALOG NUMBER: NAV-SB6D-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

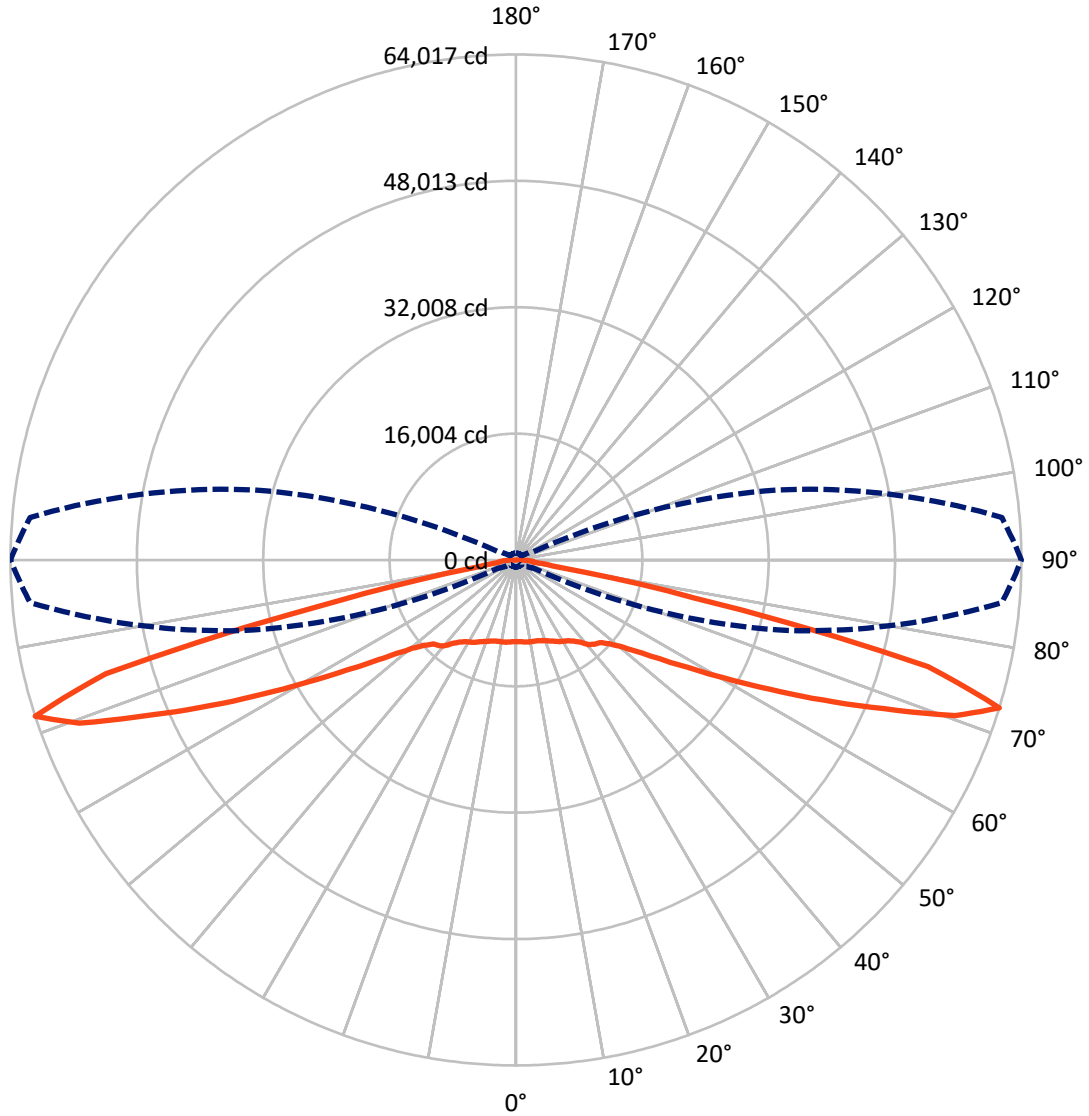
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type I - Short - N/A

REPORT NUMBER: P885445
CATALOG NUMBER: NAV-SB6D-727-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885445
 CATALOG NUMBER: NAV-SB6D-727-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27687.0	0.0	27687.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27687.0	0.0	27687.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55374.0	0.0	55374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1003.3	1.8
10°-20°	3067.7	5.5
20°-30°	5115.0	9.2
30°-40°	7034.8	12.7
40°-50°	8591.4	15.5
50°-60°	9936.8	17.9
60°-70°	11848.0	21.4
70°-80°	8269.2	14.9
80°-90°	507.9	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°	55374.0	100.0
0°-180°	55374.0	100.0

Coefficient of Utilization



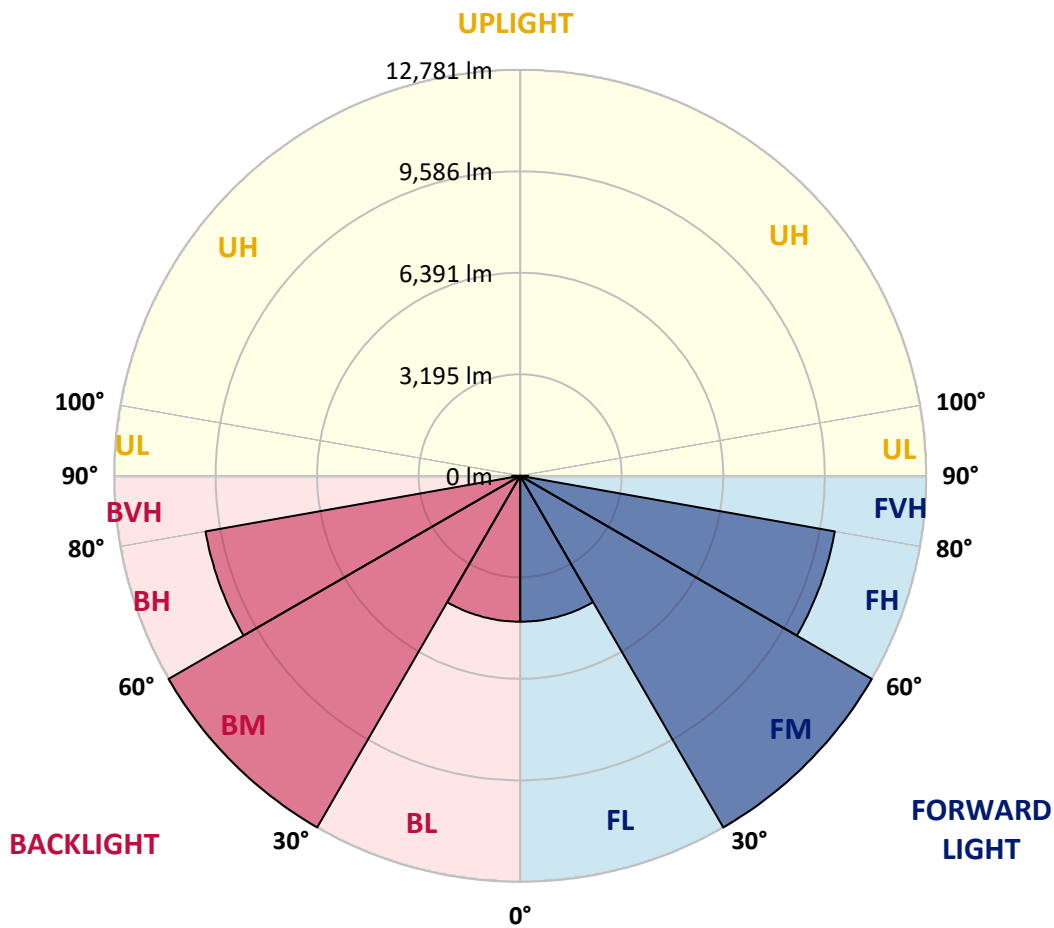
REPORT NUMBER: P885445
 CATALOG NUMBER: NAV-SB6D-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4593.0	8.3			
FM (30°-60°)	12781.5	23.1			
FH (60°-80°)	10058.6	18.2			G4/12000
FVH (80°-90°)	253.9	0.5			G3/500
BL (0°-30°)	4593.0	8.3	B4/5000		
BM (30°-60°)	12781.5	23.1	B5		
BH (60°-80°)	10058.6	18.2	B5		G5
BVH (80°-90°)	253.9	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 I Short



REPORT NUMBER: P885445
 CATALOG NUMBER: NAV-SB6D-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10347.2	10347.2	10347.2	10347.2	10347.2	10347.2	10347.2	10347.2	10347.2	10347.2	10347.2
2.5°	10356.0	10367.8	10367.8	10359.0	10379.6	10361.9	10361.9	10353.1	10361.9	10353.1	10353.1
5°	10409.0	10423.7	10429.6	10426.7	10453.2	10438.4	10438.4	10426.7	10429.6	10420.8	10420.8
7.5°	10509.1	10529.7	10541.4	10556.2	10594.4	10576.8	10565.0	10529.7	10515.0	10491.4	10491.4
10°	10541.4	10565.0	10603.2	10679.8	10768.1	10771.0	10735.7	10647.4	10579.7	10526.7	10517.9
12.5°	10441.4	10473.8	10553.2	10709.2	10906.4	10985.8	10929.9	10782.8	10650.3	10556.2	10541.4
15°	10314.8	10350.2	10470.8	10706.2	10997.6	11183.0	11177.1	10982.9	10771.0	10623.8	10600.3
17.5°	10117.7	10153.0	10326.6	10656.2	11068.2	11374.3	11456.7	11256.6	10959.3	10762.2	10729.8
20°	9761.6	9794.0	10035.3	10497.3	11091.8	11577.3	11792.2	11615.6	11244.8	10977.0	10927.0
22.5°	9299.5	9349.6	9632.1	10223.6	11035.9	11789.2	12174.8	12054.1	11577.3	11206.5	11138.9
25°	8805.1	8858.1	9187.7	9888.1	10891.7	11942.3	12628.0	12551.4	11954.0	11492.0	11397.8
27.5°	8378.4	8434.3	8793.4	9555.6	10668.0	12001.1	13075.3	13113.5	12410.2	11806.9	11706.8
30°	8042.9	8095.9	8478.5	9287.8	10379.6	11942.3	13466.7	13731.5	12875.2	12080.6	11936.4
32.5°	7675.1	7742.8	8145.9	8961.1	10038.2	11801.0	13808.1	14399.6	13413.7	12374.9	12192.4
35°	7210.1	7271.9	7695.7	8513.8	9590.9	11574.4	14093.5	15141.2	14184.8	12822.2	12619.1
37.5°	6645.1	6703.9	7124.7	7954.6	9146.5	11256.6	14311.3	15977.0	15102.9	13466.7	13195.9
40°	6077.1	6133.0	6527.3	7330.7	8613.9	10850.5	14387.8	16795.1	16156.5	14352.5	14064.1
42.5°	5556.2	5606.2	5968.2	6715.7	8016.4	10332.5	14287.8	17507.3	17101.2	14970.5	14599.7
45°	5076.5	5120.6	5441.4	6138.9	7395.5	9702.7	13987.6	18272.4	18225.3	15411.9	14911.6
47.5°	4529.1	4573.3	4905.8	5579.7	6774.5	8964.1	13478.5	19025.8	19788.0	16412.5	15835.7
50°	3861.1	3899.3	4240.7	4935.2	6130.0	8178.3	12772.2	19617.3	21759.8	17928.1	17204.2
52.5°	3069.4	3110.6	3443.2	4137.7	5364.9	7333.7	11842.2	20002.9	24037.6	20141.2	19249.5
55°	2283.7	2313.1	2601.5	3225.4	4417.3	6371.4	10676.8	20111.7	26621.4	23166.5	22051.1
57.5°	1656.8	1674.5	1859.9	2324.9	3349.0	5167.7	9261.3	19829.2	29696.7	27045.2	25641.4
60°	1342.0	1347.8	1403.8	1609.8	2327.8	3808.1	7551.5	18858.1	33034.0	32045.2	30276.5
62.5°	1218.4	1218.4	1233.1	1289.0	1574.4	2513.2	5482.6	16845.1	36612.5	38363.6	35994.5
65°	1133.0	1133.0	1138.9	1165.4	1241.9	1600.9	3460.8	13566.7	39629.0	45764.9	42769.1
67.5°	1056.5	1059.4	1056.5	1065.3	1109.5	1183.0	2007.1	9370.2	41253.5	53434.1	50199.9
70°	977.0	982.9	968.2	968.2	1003.5	1006.5	1256.6	5138.3	39905.6	59861.4	59010.9
72.5°	882.9	891.7	868.2	862.3	888.8	877.0	944.7	2466.1	34261.2	61780.2	64016.8
75°	800.5	812.2	759.3	744.6	744.6	735.7	768.1	1265.4	22236.5	50397.1	53905.0
77.5°	726.9	750.4	665.1	618.0	606.2	579.8	626.8	774.0	9726.3	23660.9	23169.4
80°	600.4	632.7	547.4	491.5	470.9	441.4	494.4	541.5	2892.9	5494.4	5261.9
82.5°	447.3	462.0	388.5	350.2	332.5	311.9	370.8	376.7	941.7	1945.3	2198.3
85°	285.5	291.3	238.4	206.0	197.2	188.3	235.4	206.0	359.0	1430.2	2077.7
87.5°	100.1	114.8	91.2	82.4	88.3	73.6	108.9	61.8	100.1	1009.4	1250.7
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)