

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1067426

Luminaire Tested: **NAV-SA4B-722-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067426
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-722-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12922.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

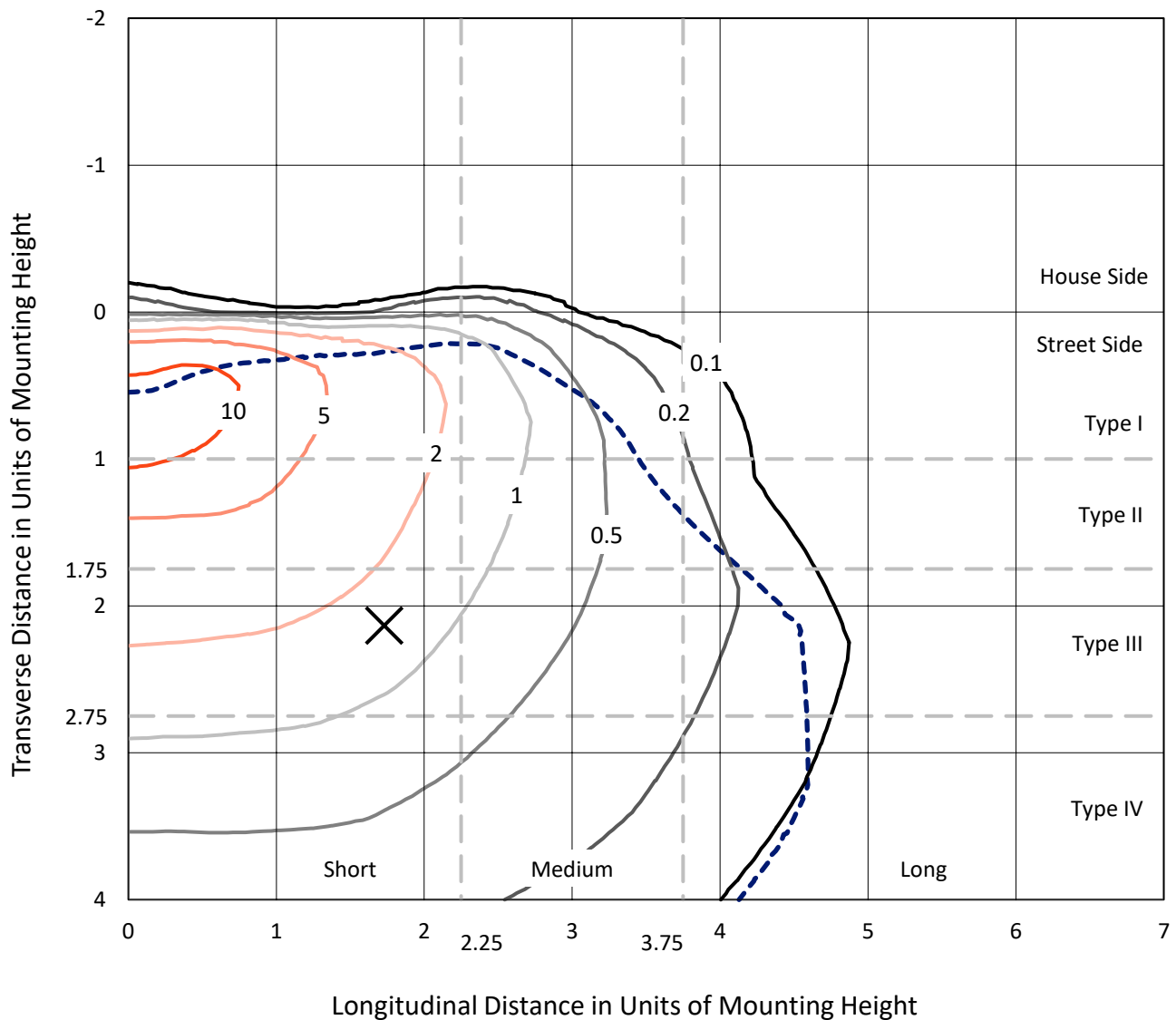


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

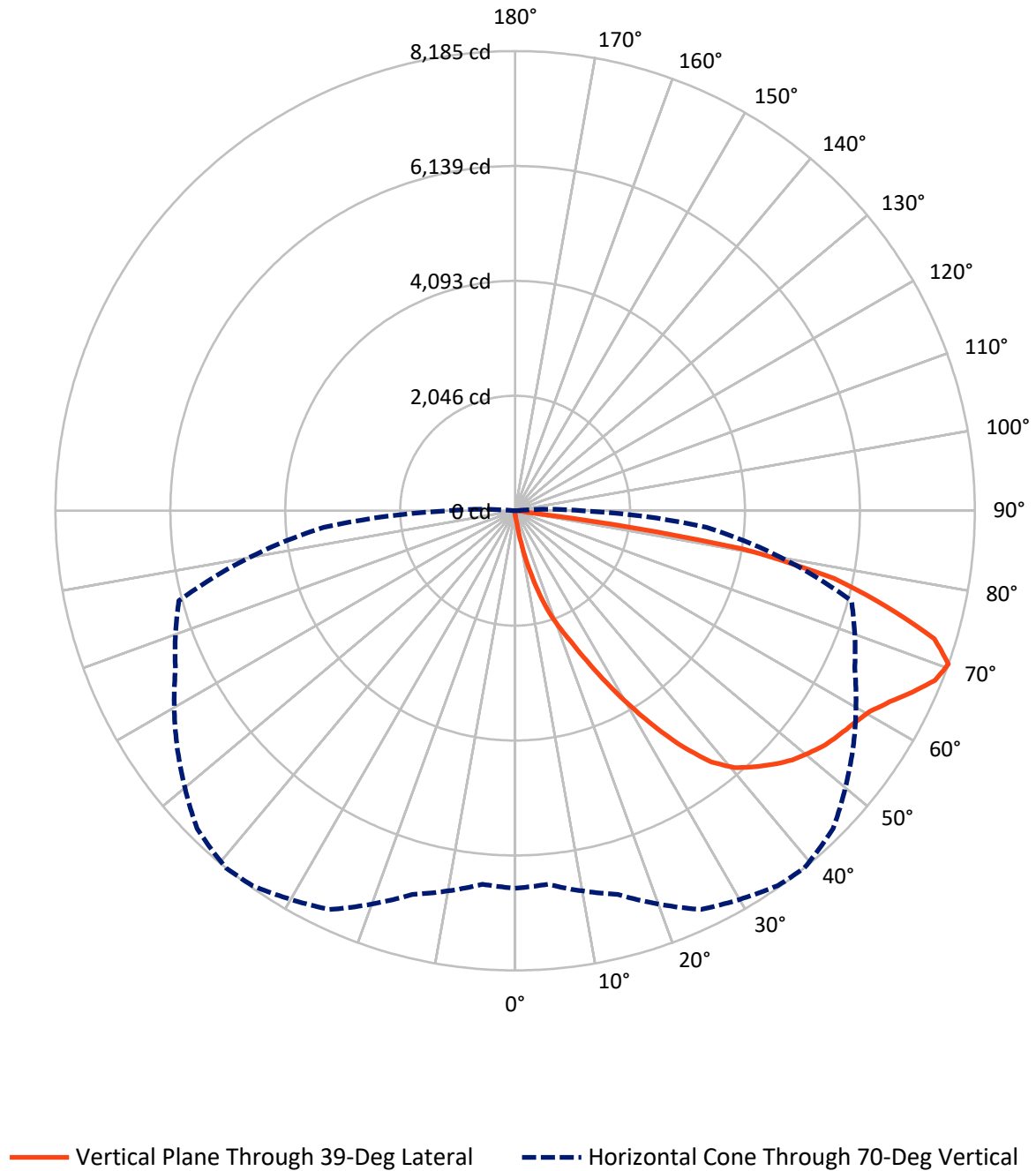


Based on 15 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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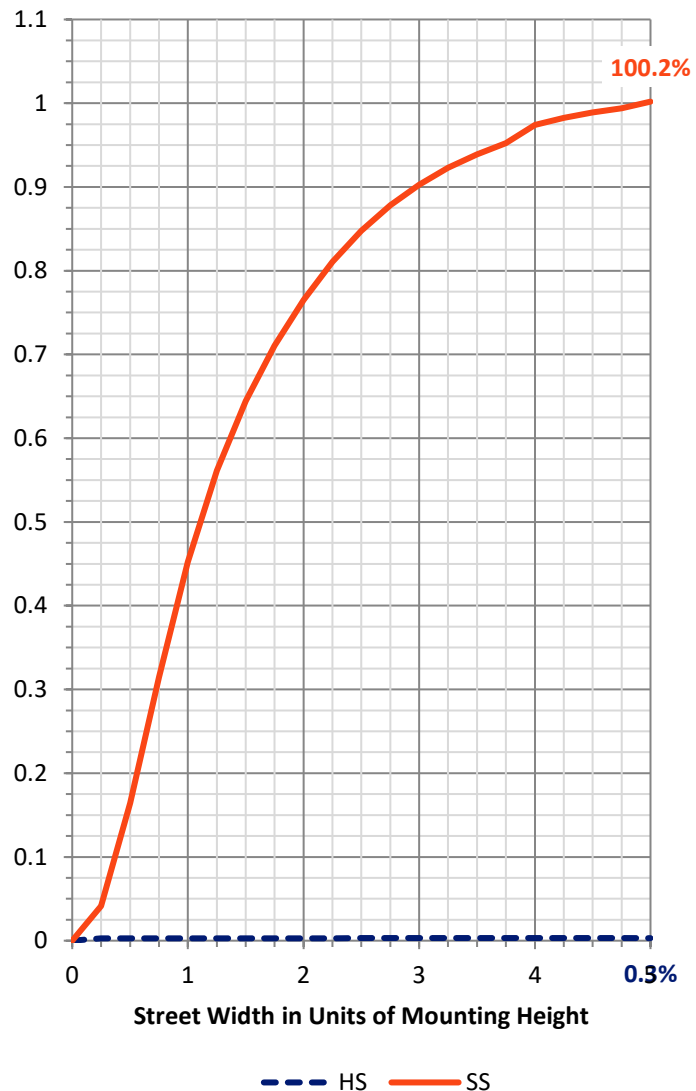
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.8	0.0	39.8
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	12883.1	0.0	12883.1
	% Fixture	99.7	0.0	99.7
Total	Lumens	12922.9	0.0	12922.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	158.9	1.2
20°-30°	539.1	4.2
30°-40°	1267.0	9.8
40°-50°	2057.4	15.9
50°-60°	2607.2	20.2
60°-70°	3311.8	25.6
70°-80°	2690.8	20.8
80°-90°	277.1	2.1
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°	12922.9	100.0
0°-180°	12922.9	100.0



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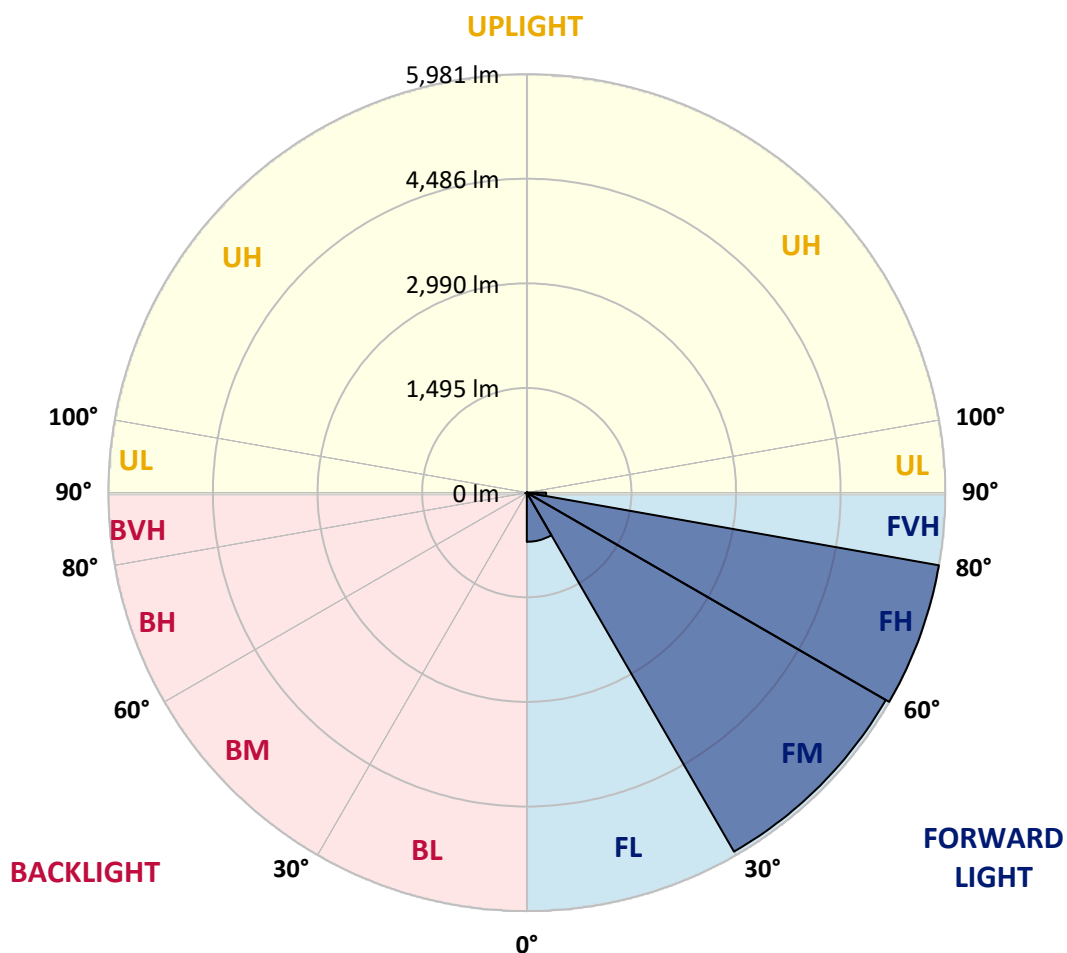
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.0	5.4			
FM	(30°-60°)	5924.0	45.8			
FH	(60°-80°)	5980.7	46.3			G3/7500
FVH	(80°-90°)	275.4	2.1			G3/500
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	7.6	0.1	B0/220		
BH	(60°-80°)	21.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type IV Short



REPORT NUMBER: P1067426

CATALOG NUMBER: NAV-SA4B-722-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	91.2	91.2	91.2	87.7	87.7	84.2	84.2	80.7	77.2	77.2	73.7
5°	171.9	175.4	164.9	143.8	129.8	122.8	115.8	98.2	87.7	80.7	73.7
7.5°	470.1	456.1	435.1	364.9	280.7	238.6	203.5	143.8	105.3	84.2	73.7
10°	989.4	950.8	891.2	796.4	631.5	564.9	438.6	263.1	147.4	94.7	73.7
12.5°	1452.5	1459.5	1385.9	1294.6	1094.7	982.4	810.5	494.7	231.6	112.3	73.7
15°	1803.4	1796.4	1768.3	1694.6	1515.7	1406.9	1252.5	831.5	389.4	140.3	77.2
17.5°	2080.6	2052.5	2042.0	2010.4	1894.6	1835.0	1666.6	1224.5	617.5	189.5	80.7
20°	2357.7	2350.7	2340.2	2305.1	2227.9	2185.8	2056.0	1620.9	919.2	270.2	87.7
22.5°	2761.2	2722.6	2729.6	2652.4	2589.3	2515.6	2410.4	2042.0	1266.6	385.9	98.2
25°	3234.9	3231.4	3175.2	3140.1	3034.9	2954.2	2813.8	2449.0	1652.5	557.9	108.8
27.5°	3792.7	3754.1	3729.6	3669.9	3561.2	3469.9	3277.0	2852.4	2070.0	750.8	122.8
30°	4375.1	4375.1	4329.5	4238.3	4133.0	4020.8	3824.3	3277.0	2484.0	996.4	140.3
32.5°	5055.8	5069.8	4957.6	4820.7	4683.9	4606.7	4350.6	3757.6	2880.5	1277.1	161.4
35°	5715.4	5697.9	5511.9	5361.0	5259.3	5175.1	4957.6	4283.9	3329.6	1603.4	189.5
37.5°	6346.9	6301.3	5992.6	5778.5	5732.9	5676.8	5459.3	4810.2	3775.2	1964.8	224.5
40°	6799.5	6729.4	6410.1	6115.4	6048.7	6017.1	5848.7	5287.4	4245.3	2368.3	270.2
42.5°	6996.0	6915.3	6694.3	6455.7	6308.3	6234.7	6087.3	5676.8	4715.5	2817.3	336.8
45°	7034.6	6971.4	6813.6	6757.4	6557.4	6445.2	6245.2	5954.0	5154.0	3262.9	428.0
47.5°	6894.3	6866.2	6771.5	6890.8	6789.0	6634.6	6392.5	6161.0	5543.5	3803.2	554.3
50°	6550.4	6529.4	6575.0	6887.2	6957.4	6782.0	6553.9	6322.4	5880.3	4361.1	733.3
52.5°	6087.3	6083.8	6297.8	6796.0	7031.1	6922.3	6711.8	6483.8	6146.9	4901.4	985.9
55°	5582.1	5641.7	6017.1	6711.8	7073.2	7024.1	6866.2	6627.6	6385.5	5403.1	1392.9
57.5°	5540.0	5515.4	5876.8	6676.7	7097.8	7125.8	7020.6	6778.5	6589.0	5813.6	1936.7
60°	5961.0	5904.9	6041.7	6750.4	7206.5	7255.6	7174.9	6894.3	6792.5	6136.4	2652.4
62.5°	6448.7	6396.1	6466.2	7034.6	7420.5	7490.7	7389.0	7013.6	6957.4	6361.0	3420.8
65°	6838.1	6796.0	6929.3	7459.1	7718.8	7778.4	7708.2	7234.6	7031.1	6543.4	4045.3
67.5°	6901.3	6848.7	7125.8	7743.3	8020.5	8062.6	8006.5	7448.6	7006.5	6557.4	4189.2
70°	6722.3	6676.7	7073.2	7834.5	8150.3	8185.4	8006.5	7346.9	6673.2	6199.6	3424.3
72.5°	6171.5	6206.6	6718.8	7613.5	7971.4	7810.0	7431.1	6834.6	6241.7	5255.8	2403.3
75°	5315.4	5354.0	6034.7	7006.5	7034.6	6838.1	6634.6	6287.3	5585.6	3462.9	1666.6
77.5°	3778.7	3641.9	4659.3	5785.6	5683.8	5810.1	5827.7	5231.2	4676.9	1803.4	1115.7
80°	371.9	315.8	585.9	1659.5	3666.4	4098.0	4266.4	4031.3	3448.9	807.0	585.9
82.5°	80.7	80.7	87.7	94.7	147.4	221.0	1014.0	2484.0	2227.9	410.5	189.5
85°	45.6	45.6	56.1	66.7	87.7	98.2	115.8	154.4	600.0	147.4	35.1
87.5°	35.1	38.6	45.6	56.1	73.7	80.7	98.2	122.8	150.9	136.8	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: NAV-SA4B-722-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	73.7	70.2	66.7	63.2	59.6	59.6	56.1	56.1	56.1	56.1	56.1
5°	70.2	66.7	63.2	56.1	52.6	49.1	45.6	45.6	45.6	45.6	45.6
7.5°	70.2	66.7	59.6	52.6	45.6	42.1	38.6	35.1	35.1	38.6	38.6
10°	70.2	63.2	52.6	45.6	38.6	35.1	31.6	28.1	28.1	28.1	28.1
12.5°	66.7	59.6	49.1	42.1	35.1	28.1	21.1	17.5	17.5	17.5	17.5
15°	63.2	56.1	45.6	35.1	24.6	17.5	14.0	10.5	10.5	10.5	10.5
17.5°	63.2	52.6	42.1	31.6	17.5	10.5	7.0	3.5	3.5	3.5	7.0
20°	63.2	52.6	38.6	24.6	10.5	7.0	7.0	3.5	0.0	3.5	3.5
22.5°	63.2	49.1	31.6	17.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0
25°	66.7	49.1	28.1	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
27.5°	66.7	45.6	24.6	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
30°	70.2	45.6	21.1	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	70.2	42.1	14.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	70.2	38.6	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	70.2	35.1	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	73.7	31.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	77.2	28.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	80.7	24.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	91.2	24.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	105.3	24.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	126.3	24.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	164.9	21.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	238.6	21.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	400.0	21.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	701.7	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1185.9	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1547.3	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1175.4	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	561.4	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	249.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	108.8	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.1	7.0	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	7.0	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0
85°	10.5	7.0	7.0	7.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

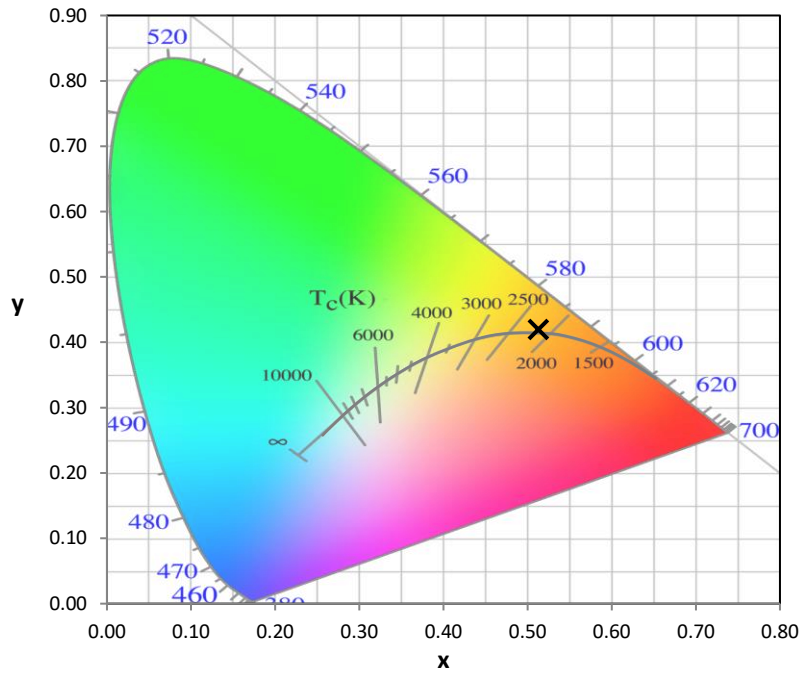
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 0.8

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)