

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: P1067432

Luminaire Tested: **NAV-SA5D-722-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067432
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5D-722-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22333 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 269.7
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

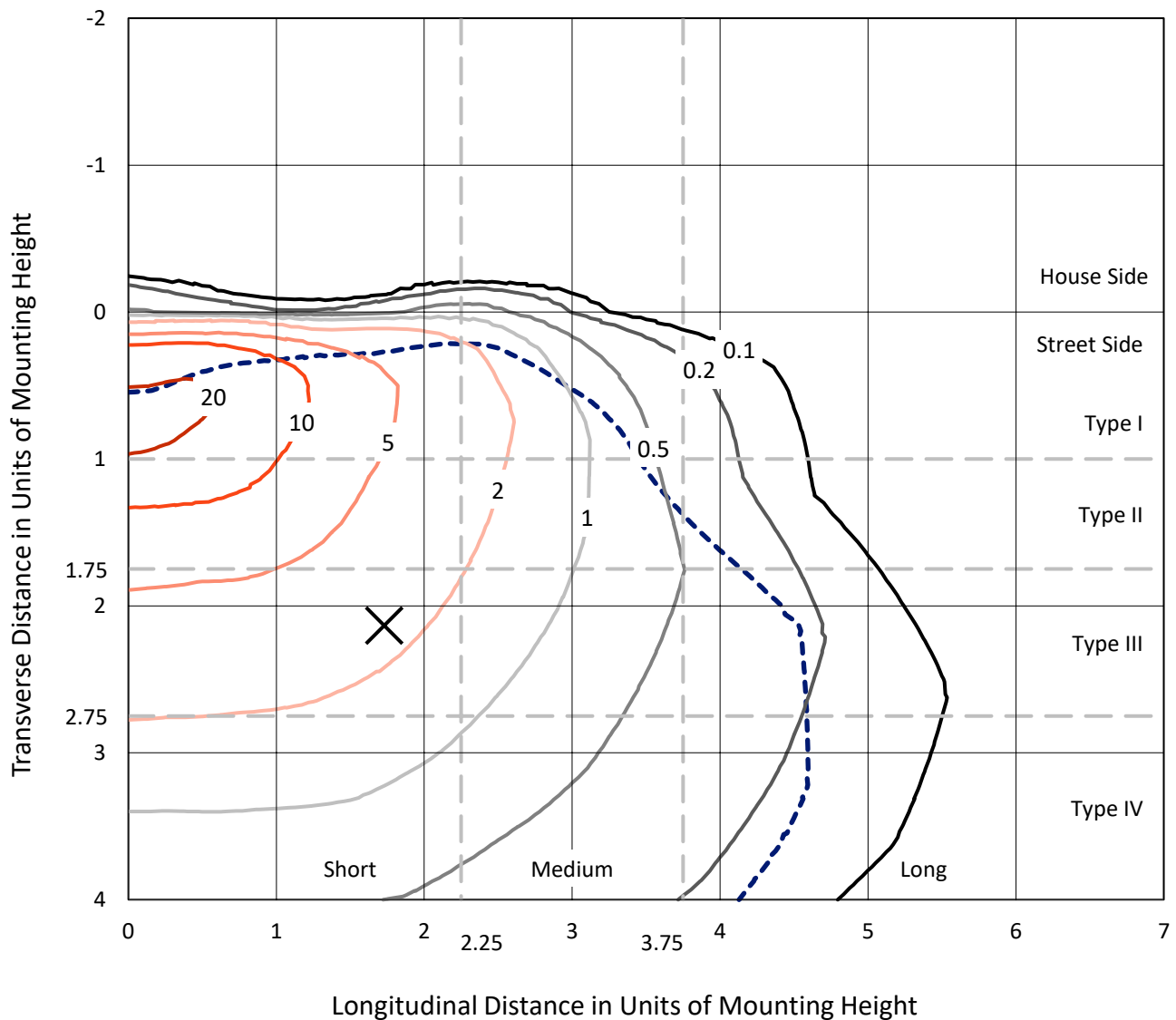


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

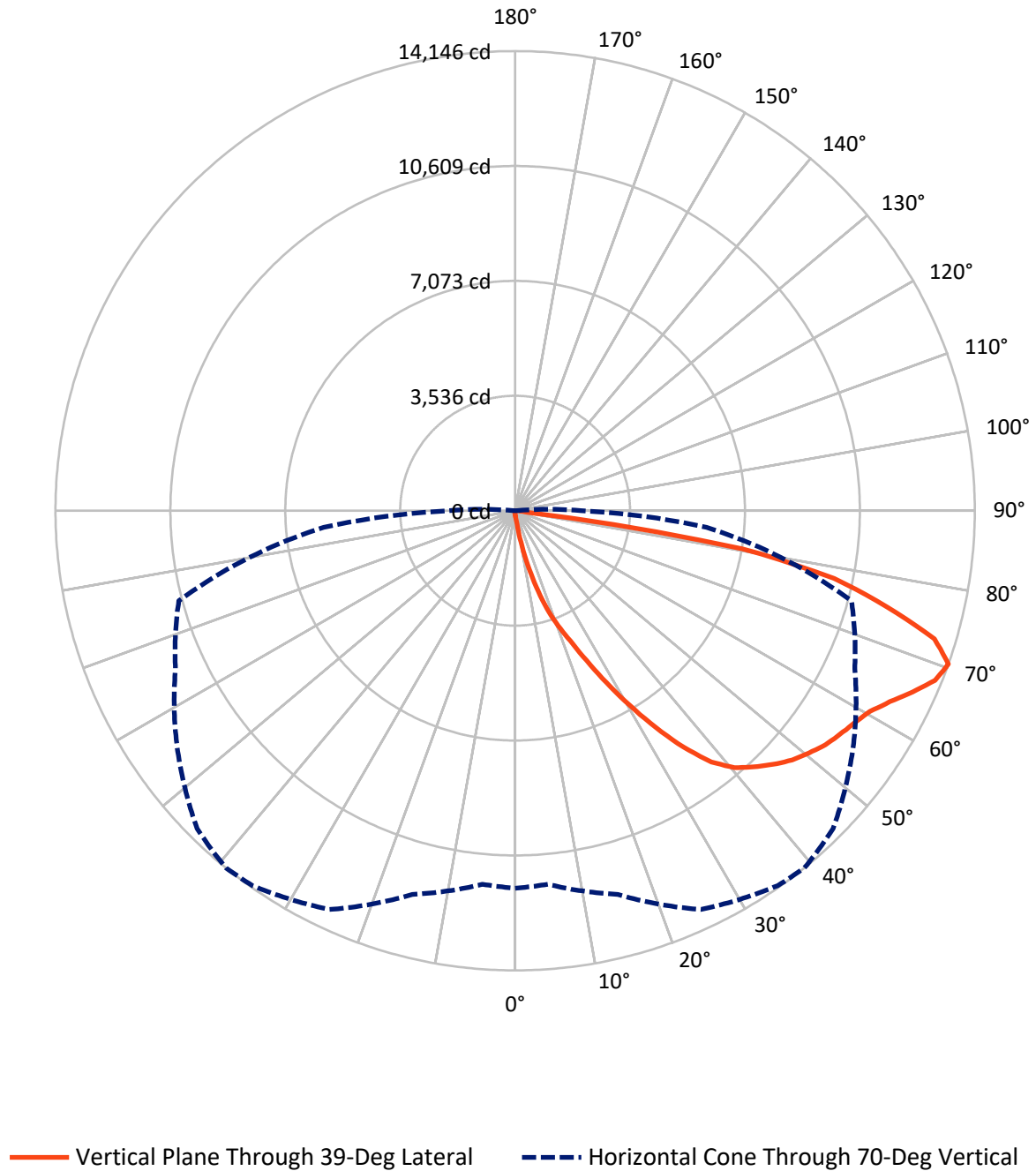


Based on 15 foot mounting height. Maximum calculated value = 24.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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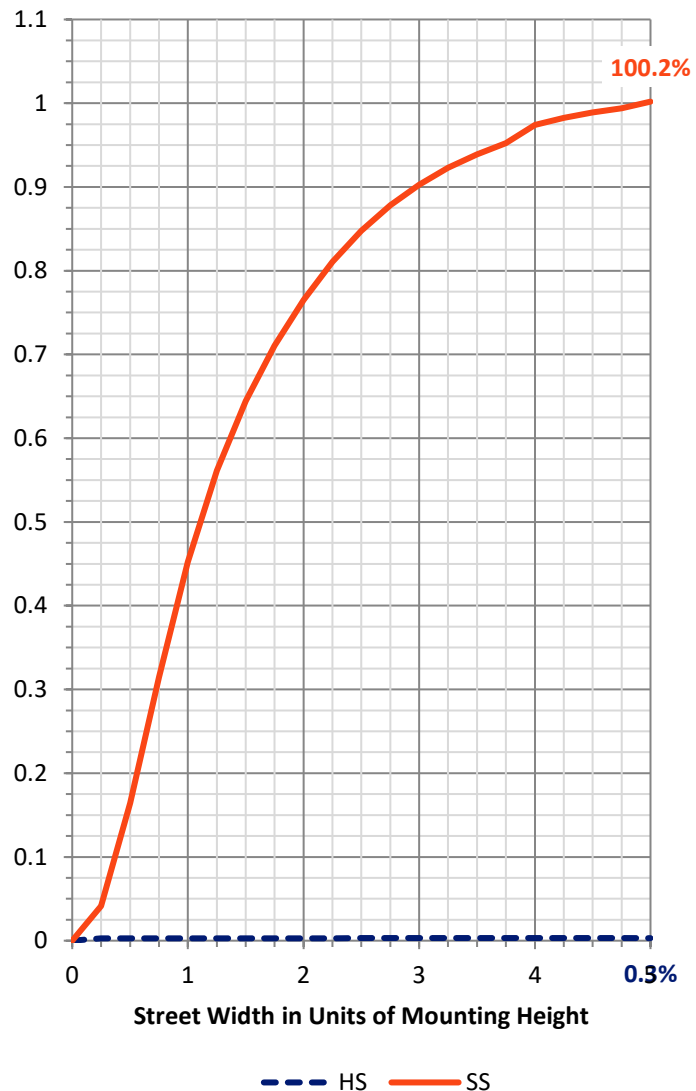
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.8	0.0	68.8
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	22264.2	0.0	22264.2
	% Fixture	99.7	0.0	99.7
Total	Lumens	22333.0	0.0	22333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	0.1
10°-20°	274.6	1.2
20°-30°	931.7	4.2
30°-40°	2189.7	9.8
40°-50°	3555.6	15.9
50°-60°	4505.6	20.2
60°-70°	5723.3	25.6
70°-80°	4650.2	20.8
80°-90°	478.8	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°	22333.0	100.0
0°-180°	22333.0	100.0



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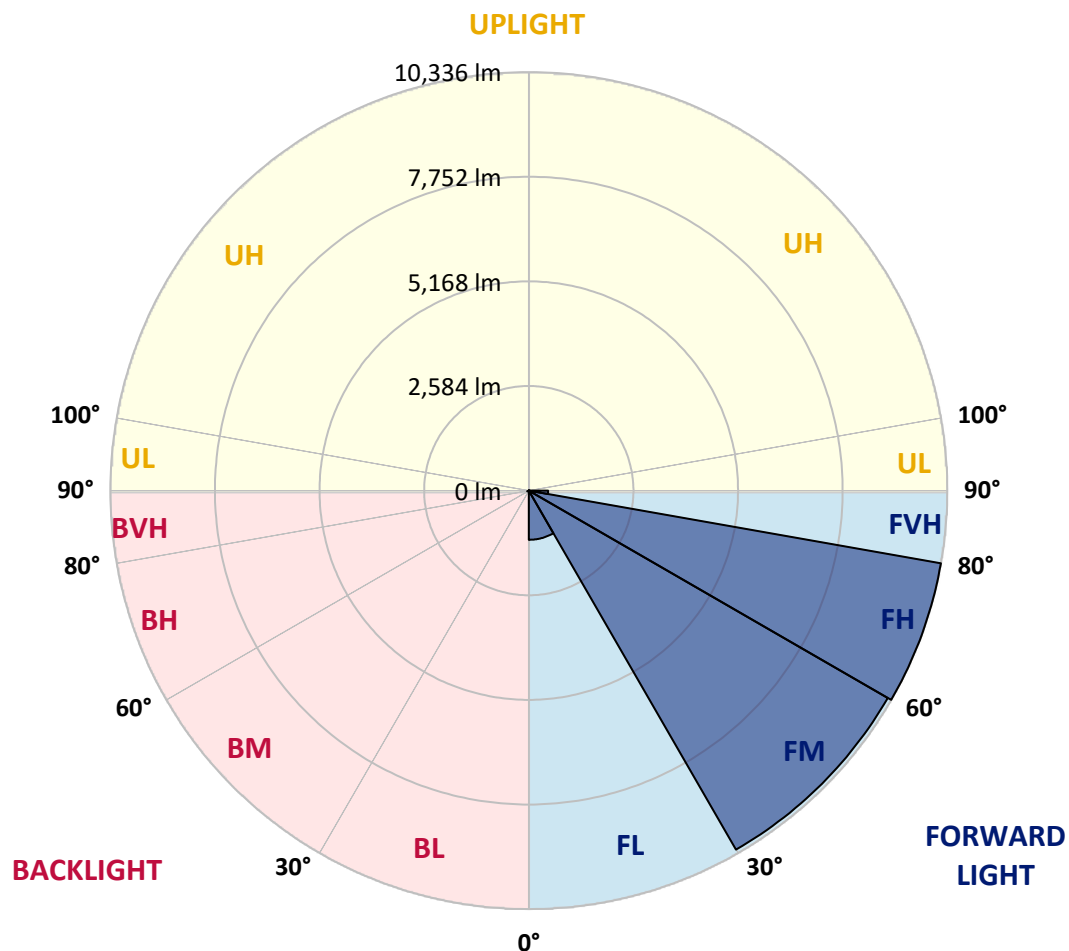
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.9	5.4			
FM	(30°-60°)	10237.6	45.8			
FH	(60°-80°)	10335.7	46.3			G4/12000
FVH	(80°-90°)	475.9	2.1			G3/500
BL	(0°-30°)	14.9	0.1	B0/110		
BM	(30°-60°)	13.2	0.1	B0/220		
BH	(60°-80°)	37.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3
2.5°	157.6	157.6	157.6	151.6	151.6	145.5	145.5	139.5	133.4	133.4	127.3
5°	297.1	303.2	285.0	248.6	224.3	212.2	200.1	169.8	151.6	139.5	127.3
7.5°	812.5	788.2	751.9	630.6	485.1	412.3	351.7	248.6	181.9	145.5	127.3
10°	1709.9	1643.2	1540.1	1376.4	1091.4	976.2	757.9	454.7	254.7	163.7	127.3
12.5°	2510.2	2522.3	2395.0	2237.4	1891.8	1697.7	1400.6	854.9	400.2	194.0	127.3
15°	3116.6	3104.4	3055.9	2928.6	2619.4	2431.4	2164.6	1437.0	673.0	242.5	133.4
17.5°	3595.6	3547.0	3528.9	3474.3	3274.2	3171.1	2880.1	2116.1	1067.1	327.4	139.5
20°	4074.6	4062.4	4044.2	3983.6	3850.2	3777.5	3553.1	2801.3	1588.6	466.9	151.6
22.5°	4771.8	4705.1	4717.3	4583.9	4474.7	4347.4	4165.5	3528.9	2188.9	667.0	169.8
25°	5590.4	5584.3	5487.3	5426.7	5244.8	5105.3	4862.8	4232.2	2855.8	964.1	188.0
27.5°	6554.5	6487.8	6445.3	6342.2	6154.3	5996.6	5663.1	4929.5	3577.4	1297.6	212.2
30°	7561.0	7561.0	7482.1	7324.5	7142.6	6948.6	6609.0	5663.1	4292.8	1722.0	242.5
32.5°	8737.3	8761.5	8567.5	8331.0	8094.5	7961.1	7518.5	6493.8	4978.0	2207.1	278.9
35°	9877.2	9846.8	9525.5	9264.8	9088.9	8943.4	8567.5	7403.3	5754.1	2770.9	327.4
37.5°	10968.6	10889.7	10356.2	9986.3	9907.5	9810.5	9434.5	8312.8	6524.1	3395.5	388.1
40°	11750.7	11629.5	11077.7	10568.4	10453.2	10398.6	10107.6	9137.4	7336.6	4092.7	466.9
42.5°	12090.3	11950.8	11568.8	11156.5	10901.9	10774.5	10519.9	9810.5	8149.1	4868.9	582.1
45°	12157.0	12047.8	11775.0	11678.0	11332.4	11138.3	10792.7	10289.5	8907.0	5638.9	739.7
47.5°	11914.4	11865.9	11702.2	11908.4	11732.5	11465.8	11047.4	10647.2	9580.1	6572.6	958.0
50°	11320.2	11283.9	11362.7	11902.3	12023.6	11720.4	11326.3	10926.1	10162.1	7536.7	1267.2
52.5°	10519.9	10513.8	10883.7	11744.7	12150.9	11962.9	11599.1	11205.0	10623.0	8470.5	1703.8
55°	9646.8	9749.8	10398.6	11599.1	12223.7	12138.8	11865.9	11453.6	11035.3	9337.5	2407.1
57.5°	9574.0	9531.6	10156.1	11538.5	12266.1	12314.6	12132.7	11714.3	11386.9	10046.9	3347.0
60°	10301.6	10204.6	10441.1	11665.8	12454.1	12539.0	12399.5	11914.4	11738.6	10604.8	4583.9
62.5°	11144.4	11053.4	11174.7	12157.0	12823.9	12945.2	12769.4	12120.6	12023.6	10992.8	5911.7
65°	11817.4	11744.7	11975.1	12890.6	13339.3	13442.4	13321.1	12502.6	12150.9	11308.1	6991.0
67.5°	11926.6	11835.6	12314.6	13381.8	13860.8	13933.5	13836.5	12872.4	12108.5	11332.4	7239.6
70°	11617.3	11538.5	12223.7	13539.4	14085.1	14145.7	13836.5	12696.6	11532.5	10713.9	5917.8
72.5°	10665.4	10726.0	11611.3	13157.4	13775.9	13497.0	12842.1	11811.4	10786.7	9082.9	4153.4
75°	9185.9	9252.6	10428.9	12108.5	12157.0	11817.4	11465.8	10865.5	9652.8	5984.5	2880.1
77.5°	6530.2	6293.7	8052.1	9998.4	9822.6	10040.9	10071.2	9040.4	8082.4	3116.6	1928.1
80°	642.7	545.7	1012.6	2868.0	6336.2	7082.0	7373.0	6966.8	5960.3	1394.6	1012.6
82.5°	139.5	139.5	151.6	163.7	254.7	382.0	1752.3	4292.8	3850.2	709.4	327.4
85°	78.8	78.8	97.0	115.2	151.6	169.8	200.1	266.8	1036.8	254.7	60.6
87.5°	60.6	66.7	78.8	97.0	127.3	139.5	169.8	212.2	260.7	236.5	18.2
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-SA5D-722-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3
2.5°	127.3	121.3	115.2	109.1	103.1	103.1	97.0	97.0	97.0	97.0	97.0
5°	121.3	115.2	109.1	97.0	90.9	84.9	78.8	78.8	78.8	78.8	78.8
7.5°	121.3	115.2	103.1	90.9	78.8	72.8	66.7	60.6	60.6	66.7	66.7
10°	121.3	109.1	90.9	78.8	66.7	60.6	54.6	48.5	48.5	48.5	48.5
12.5°	115.2	103.1	84.9	72.8	60.6	48.5	36.4	30.3	30.3	30.3	30.3
15°	109.1	97.0	78.8	60.6	42.4	30.3	24.3	18.2	18.2	18.2	18.2
17.5°	109.1	90.9	72.8	54.6	30.3	18.2	12.1	6.1	6.1	6.1	12.1
20°	109.1	90.9	66.7	42.4	18.2	12.1	12.1	6.1	0.0	6.1	6.1
22.5°	109.1	84.9	54.6	30.3	18.2	12.1	6.1	0.0	0.0	0.0	0.0
25°	115.2	84.9	48.5	24.3	12.1	6.1	0.0	0.0	0.0	0.0	0.0
27.5°	115.2	78.8	42.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
30°	121.3	78.8	36.4	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	121.3	72.8	24.3	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	121.3	66.7	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	121.3	60.6	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	127.3	54.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	133.4	48.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	139.5	42.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	157.6	42.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	181.9	42.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	218.3	42.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	285.0	36.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	412.3	36.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	691.2	36.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1212.7	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2049.4	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2673.9	42.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2031.2	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	970.1	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	430.5	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	188.0	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.8	12.1	6.1	6.1	6.1	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	30.3	12.1	6.1	6.1	6.1	6.1	0.0	0.0	0.0	0.0	0.0
85°	18.2	12.1	12.1	12.1	6.1	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	12.1	12.1	12.1	12.1	6.1	0.0	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

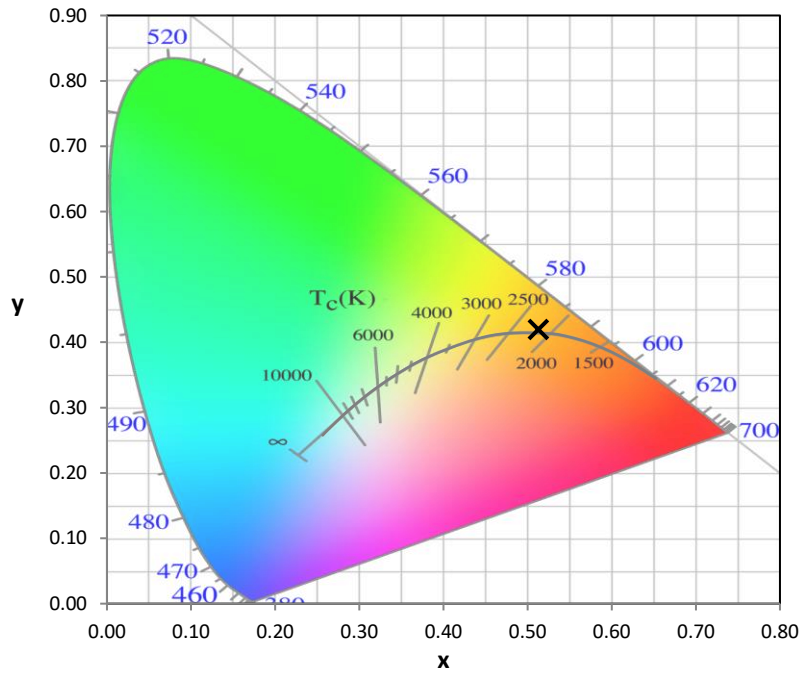
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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 [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /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

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

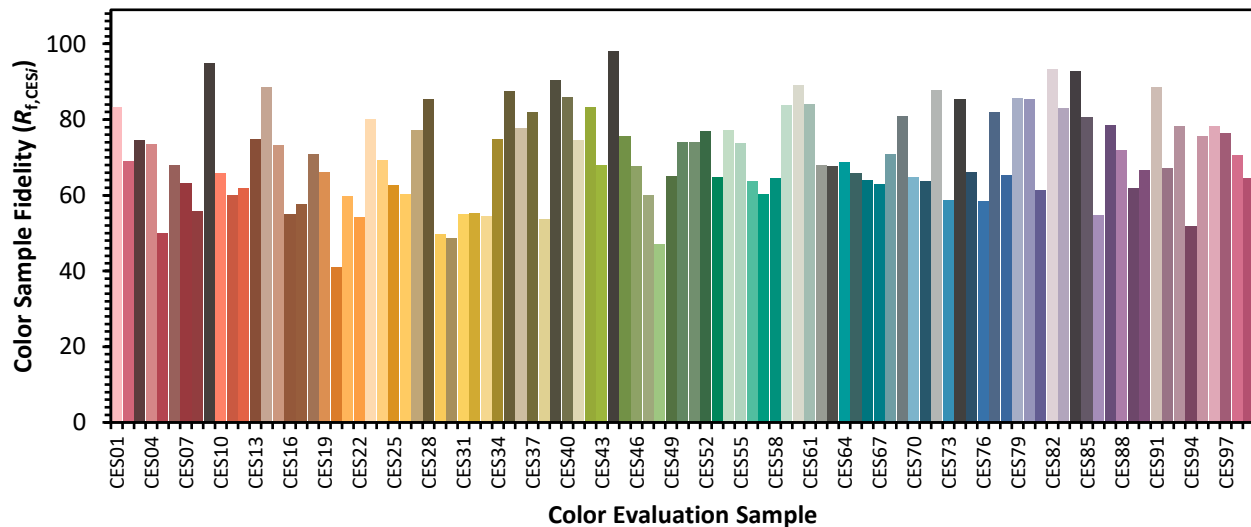


Color Vector Graphics



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)