

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: P1067421

Luminaire Tested: **NAV-SA3A-722-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067421
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-722-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (42) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7871.1 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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

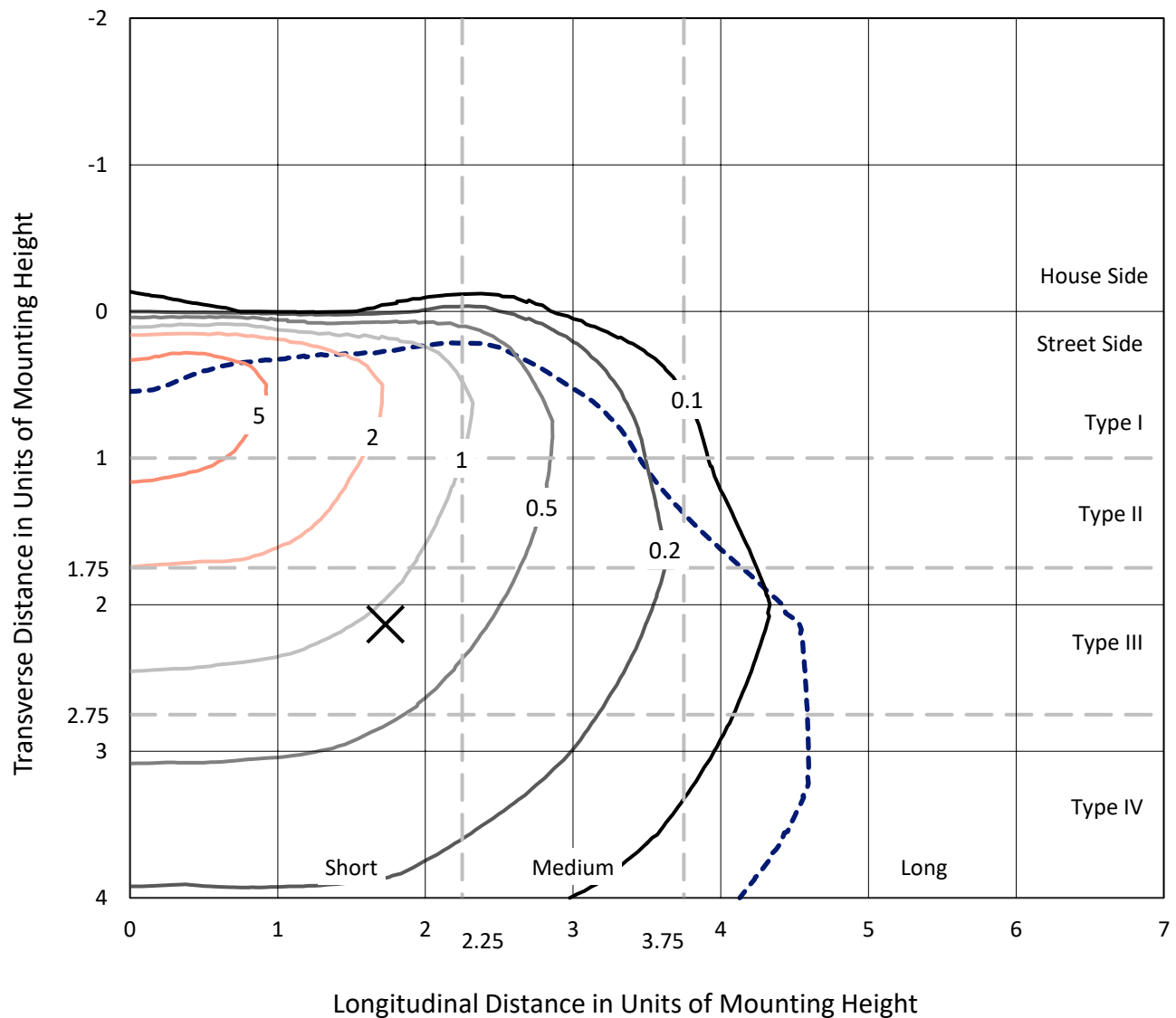


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

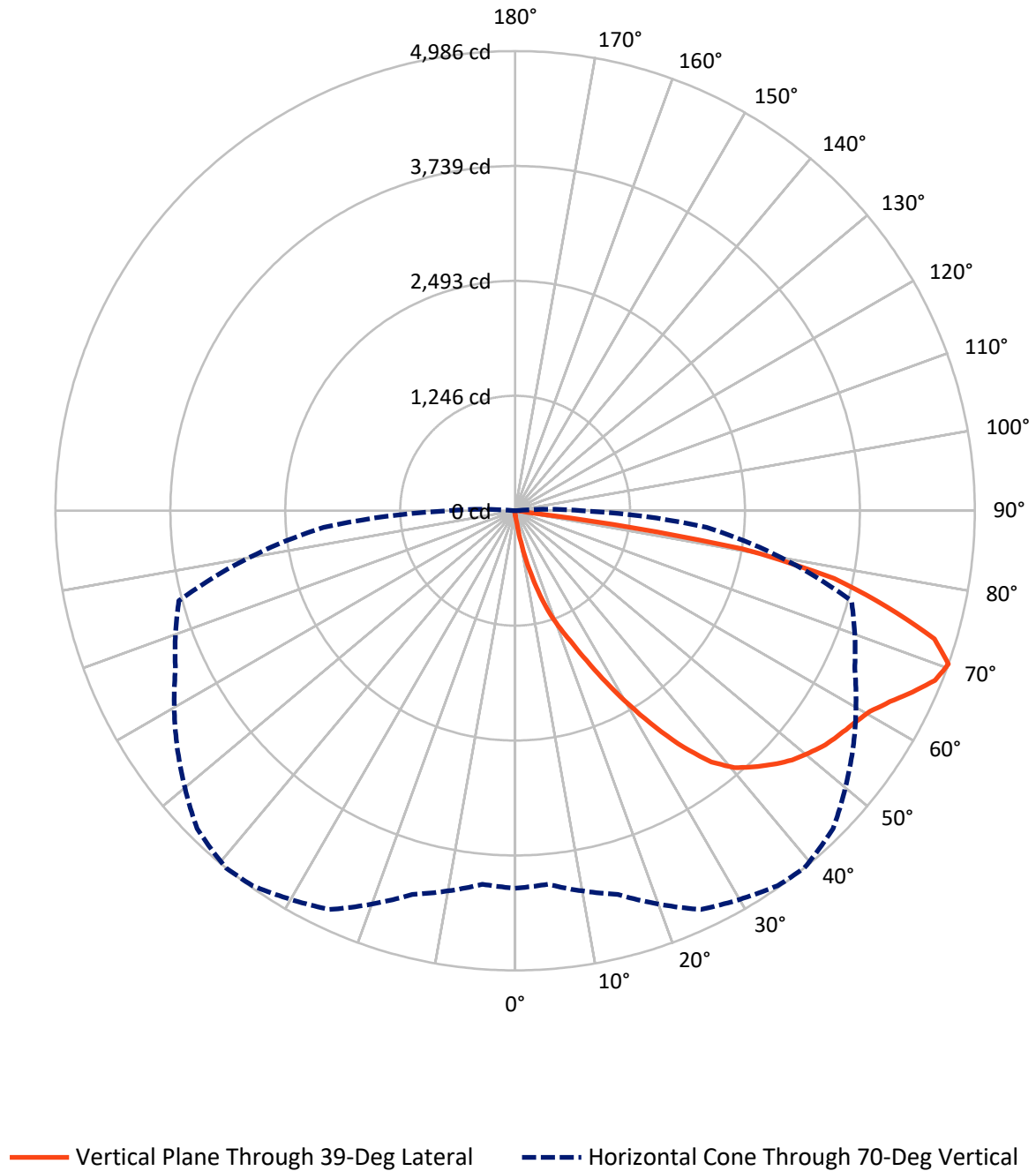


Based on 15 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24.2	0.0	24.2
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	7846.9	0.0	7846.9
	% Fixture	99.7	0.0	99.7
Total	Lumens	7871.1	0.0	7871.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.1
10°-20°	96.8	1.2
20°-30°	328.4	4.2
30°-40°	771.7	9.8
40°-50°	1253.1	15.9
50°-60°	1588.0	20.2
60°-70°	2017.1	25.6
70°-80°	1638.9	20.8
80°-90°	168.8	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°	7871.1	100.0
0°-180°	7871.1	100.0



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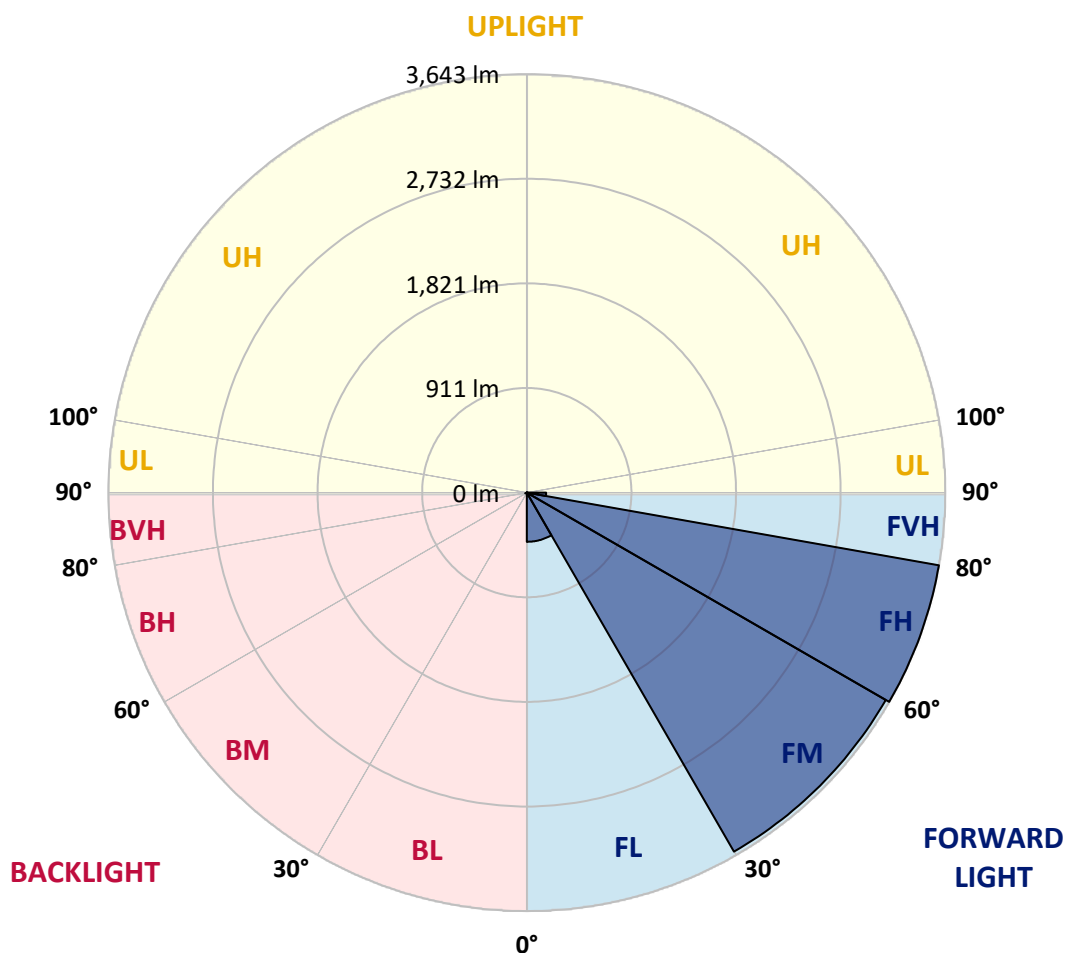
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.2	5.4			
FM	(30°-60°)	3608.2	45.8			
FH	(60°-80°)	3642.8	46.3			G2/5000
FVH	(80°-90°)	167.7	2.1			G2/225
BL	(0°-30°)	5.2	0.1	B0/110		
BM	(30°-60°)	4.7	0.1	B0/220		
BH	(60°-80°)	13.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2.5°	55.6	55.6	55.6	53.4	53.4	51.3	51.3	49.2	47.0	47.0	44.9
5°	104.7	106.8	100.4	87.6	79.1	74.8	70.5	59.8	53.4	49.2	44.9
7.5°	286.4	277.8	265.0	222.2	171.0	145.3	123.9	87.6	64.1	51.3	44.9
10°	602.6	579.1	542.8	485.1	384.7	344.1	267.1	160.3	89.8	57.7	44.9
12.5°	884.7	889.0	844.1	788.5	666.7	598.4	493.6	301.3	141.0	68.4	44.9
15°	1098.4	1094.1	1077.0	1032.2	923.2	856.9	762.9	506.5	237.2	85.5	47.0
17.5°	1267.2	1250.1	1243.7	1224.5	1154.0	1117.6	1015.1	745.8	376.1	115.4	49.2
20°	1436.1	1431.8	1425.4	1404.0	1357.0	1331.3	1252.3	987.3	559.9	164.5	53.4
22.5°	1681.8	1658.3	1662.6	1615.6	1577.1	1532.2	1468.1	1243.7	771.4	235.1	59.8
25°	1970.3	1968.2	1934.0	1912.6	1848.5	1799.3	1713.9	1491.6	1006.5	339.8	66.2
27.5°	2310.1	2286.6	2271.6	2235.3	2169.0	2113.5	1995.9	1737.4	1260.8	457.3	74.8
30°	2664.8	2664.8	2637.0	2581.5	2517.4	2449.0	2329.3	1995.9	1513.0	606.9	85.5
32.5°	3079.4	3087.9	3019.6	2936.2	2852.9	2805.9	2649.9	2288.7	1754.5	777.9	98.3
35°	3481.1	3470.5	3357.2	3265.3	3203.3	3152.0	3019.6	2609.3	2028.0	976.6	115.4
37.5°	3865.8	3838.0	3650.0	3519.6	3491.8	3457.6	3325.1	2929.8	2299.4	1196.7	136.8
40°	4141.5	4098.7	3904.3	3724.8	3684.2	3664.9	3562.3	3220.4	2585.7	1442.5	164.5
42.5°	4261.1	4212.0	4077.4	3932.0	3842.3	3797.4	3707.7	3457.6	2872.1	1716.0	205.2
45°	4284.6	4246.2	4150.0	4115.8	3994.0	3925.6	3803.8	3626.5	3139.2	1987.4	260.7
47.5°	4199.2	4182.1	4124.4	4197.0	4135.1	4041.0	3893.6	3752.5	3376.4	2316.5	337.6
50°	3989.7	3976.9	4004.7	4194.9	4237.6	4130.8	3991.9	3850.8	3581.6	2656.3	446.6
52.5°	3707.7	3705.5	3835.9	4139.3	4282.5	4216.3	4088.0	3949.1	3744.0	2985.4	600.5
55°	3399.9	3436.3	3664.9	4088.0	4308.2	4278.2	4182.1	4036.8	3889.3	3290.9	848.4
57.5°	3374.3	3359.3	3579.4	4066.7	4323.1	4340.2	4276.1	4128.6	4013.2	3541.0	1179.6
60°	3630.7	3596.5	3679.9	4111.5	4389.4	4419.3	4370.1	4199.2	4137.2	3737.6	1615.6
62.5°	3927.8	3895.7	3938.5	4284.6	4519.7	4562.5	4500.5	4271.8	4237.6	3874.3	2083.6
65°	4165.0	4139.3	4220.5	4543.2	4701.4	4737.7	4694.9	4406.5	4282.5	3985.5	2463.9
67.5°	4203.4	4171.4	4340.2	4716.3	4885.1	4910.8	4876.6	4536.8	4267.5	3994.0	2551.6
70°	4094.5	4066.7	4308.2	4771.9	4964.2	4985.6	4876.6	4474.8	4064.5	3776.0	2085.7
72.5°	3758.9	3780.3	4092.3	4637.2	4855.2	4756.9	4526.1	4162.8	3801.7	3201.2	1463.8
75°	3237.5	3261.0	3675.6	4267.5	4284.6	4165.0	4041.0	3829.5	3402.1	2109.2	1015.1
77.5°	2301.5	2218.2	2837.9	3523.9	3461.9	3538.8	3549.5	3186.2	2848.6	1098.4	679.6
80°	226.5	192.3	356.9	1010.8	2233.1	2496.0	2598.6	2455.4	2100.7	491.5	356.9
82.5°	49.2	49.2	53.4	57.7	89.8	134.6	617.6	1513.0	1357.0	250.0	115.4
85°	27.8	27.8	34.2	40.6	53.4	59.8	70.5	94.0	365.4	89.8	21.4
87.5°	21.4	23.5	27.8	34.2	44.9	49.2	59.8	74.8	91.9	83.3	6.4
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-SA3A-722-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2.5°	44.9	42.7	40.6	38.5	36.3	36.3	34.2	34.2	34.2	34.2	34.2
5°	42.7	40.6	38.5	34.2	32.1	29.9	27.8	27.8	27.8	27.8	27.8
7.5°	42.7	40.6	36.3	32.1	27.8	25.6	23.5	21.4	21.4	23.5	23.5
10°	42.7	38.5	32.1	27.8	23.5	21.4	19.2	17.1	17.1	17.1	17.1
12.5°	40.6	36.3	29.9	25.6	21.4	17.1	12.8	10.7	10.7	10.7	10.7
15°	38.5	34.2	27.8	21.4	15.0	10.7	8.5	6.4	6.4	6.4	6.4
17.5°	38.5	32.1	25.6	19.2	10.7	6.4	4.3	2.1	2.1	2.1	4.3
20°	38.5	32.1	23.5	15.0	6.4	4.3	4.3	2.1	0.0	2.1	2.1
22.5°	38.5	29.9	19.2	10.7	6.4	4.3	2.1	0.0	0.0	0.0	0.0
25°	40.6	29.9	17.1	8.5	4.3	2.1	0.0	0.0	0.0	0.0	0.0
27.5°	40.6	27.8	15.0	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
30°	42.7	27.8	12.8	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	42.7	25.6	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	42.7	23.5	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	42.7	21.4	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	44.9	19.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	47.0	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	49.2	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	55.6	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	64.1	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	76.9	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	100.4	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	145.3	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	243.6	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	427.4	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	722.3	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	942.4	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	715.9	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	341.9	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	151.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	66.2	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.6	4.3	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	4.3	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
85°	6.4	4.3	4.3	4.3	2.1	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	4.3	4.3	4.3	4.3	4.3	2.1	2.1	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 $\text{W}^\wedge/\text{nm}$	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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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

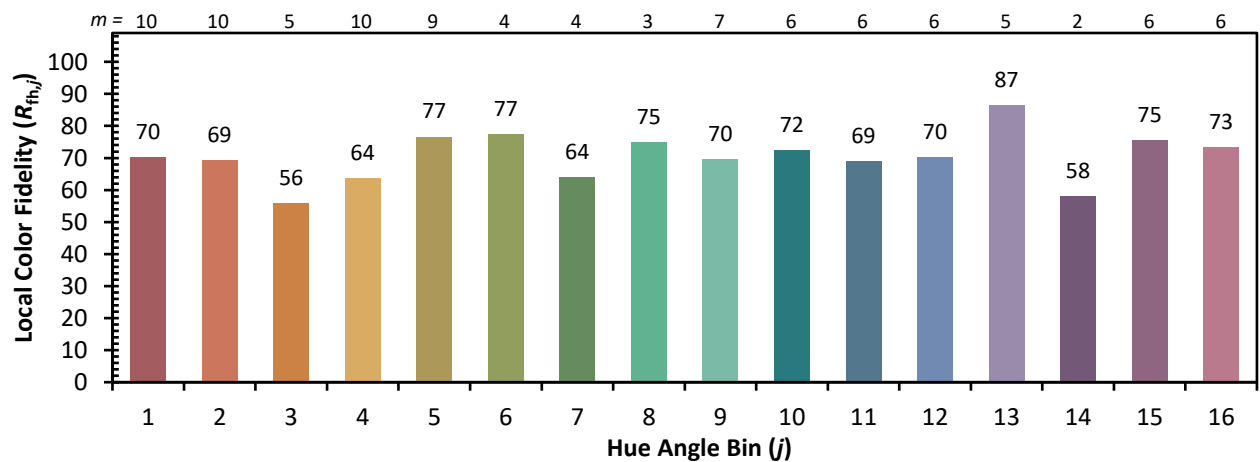


Individual Sample Fidelity Index ($R_{f,i}$)

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)