

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: P1067583

Luminaire Tested: **NAV-SA1C-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067583
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1C-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4559.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 50.1
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

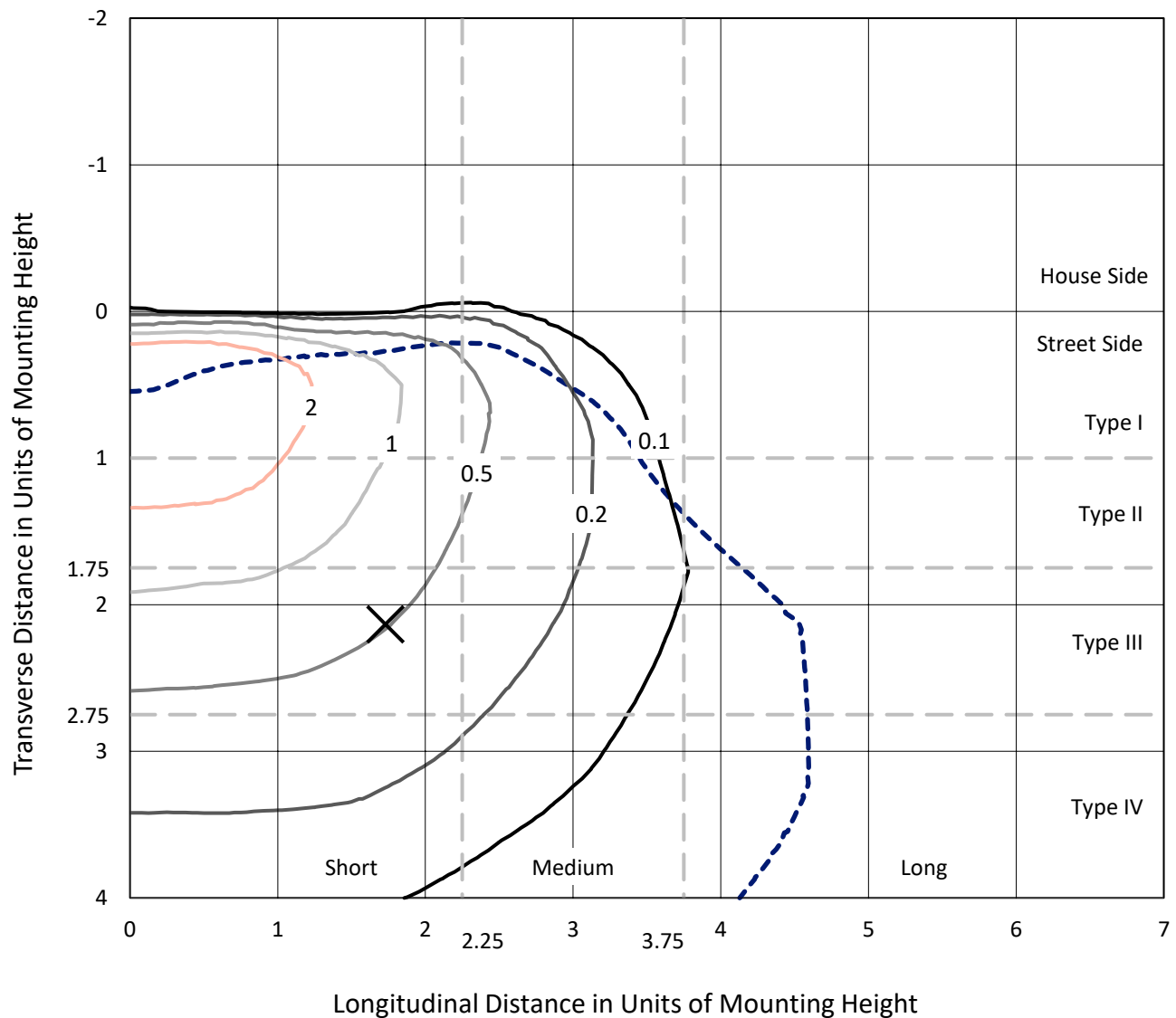


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

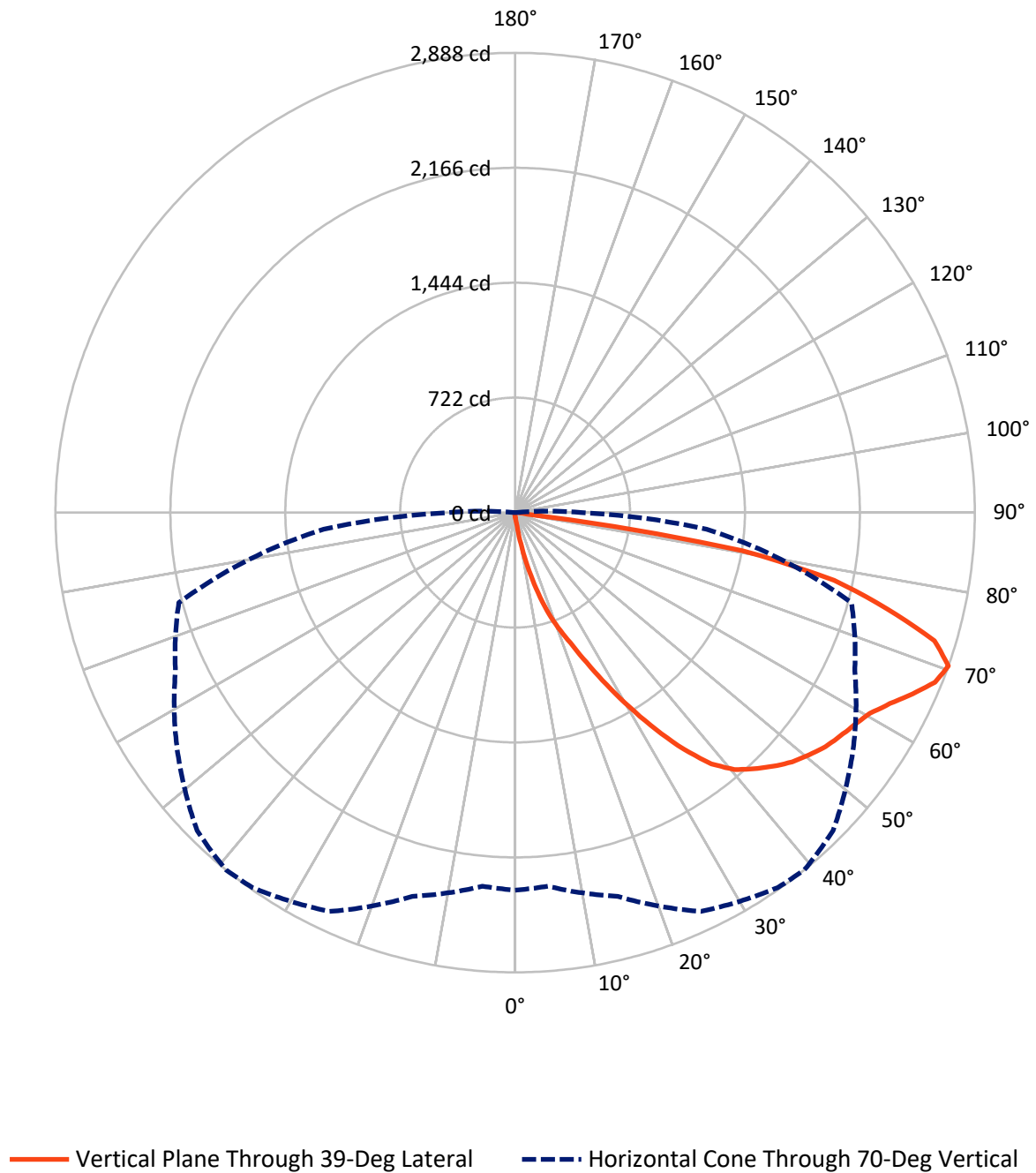


Based on 15 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14.0	0.0	14.0
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	4545.7	0.0	4545.7
	% Fixture	99.7	0.0	99.7
Total	Lumens	4559.7	0.0	4559.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	56.1	1.2
20°-30°	190.2	4.2
30°-40°	447.1	9.8
40°-50°	725.9	15.9
50°-60°	919.9	20.2
60°-70°	1168.5	25.6
70°-80°	949.4	20.8
80°-90°	97.8	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°	4559.7	100.0
0°-180°	4559.7	100.0



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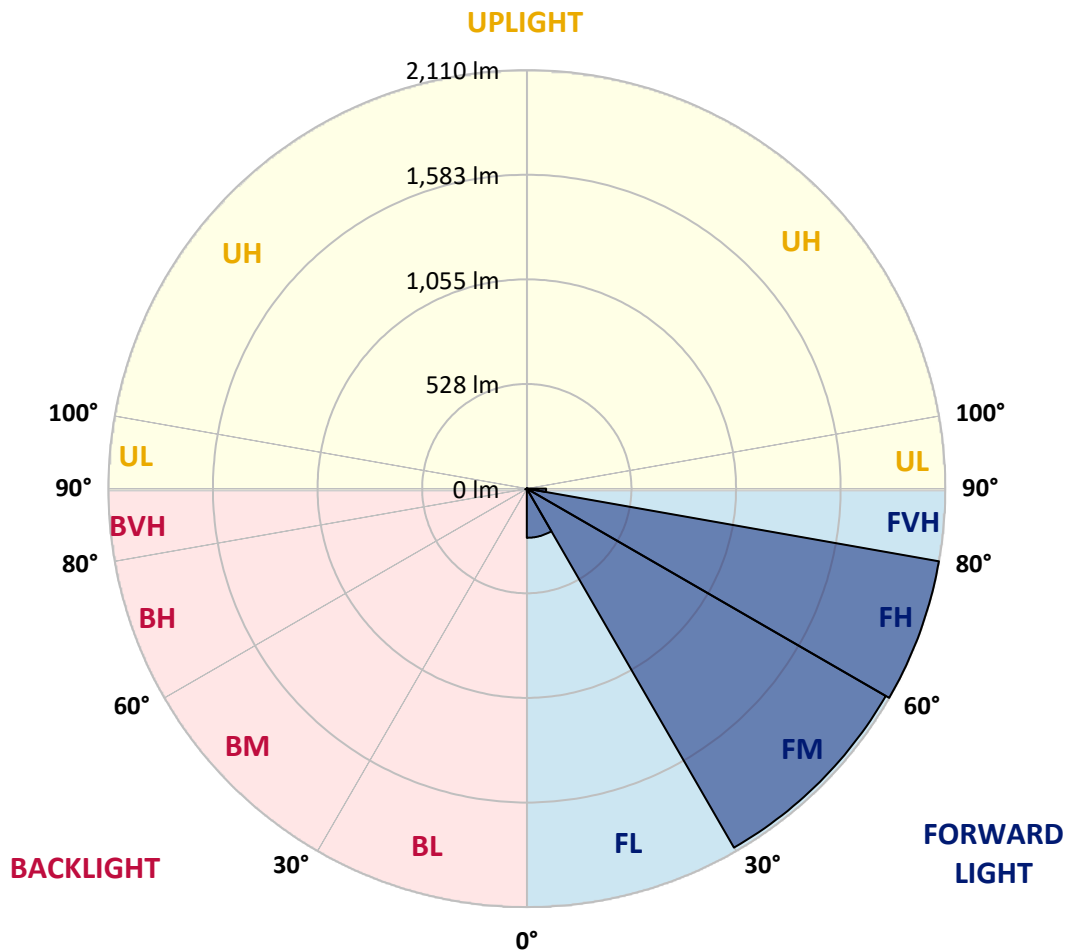
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.0	5.4			
FM	(30°-60°)	2090.2	45.8			
FH	(60°-80°)	2110.2	46.3			G2/5000
FVH	(80°-90°)	97.2	2.1			G1/100
BL	(0°-30°)	3.0	0.1	B0/110		
BM	(30°-60°)	2.7	0.1	B0/220		
BH	(60°-80°)	7.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	32.2	32.2	32.2	30.9	30.9	29.7	29.7	28.5	27.2	27.2	26.0
5°	60.7	61.9	58.2	50.8	45.8	43.3	40.9	34.7	30.9	28.5	26.0
7.5°	165.9	160.9	153.5	128.7	99.0	84.2	71.8	50.8	37.1	29.7	26.0
10°	349.1	335.5	314.4	281.0	222.8	199.3	154.7	92.8	52.0	33.4	26.0
12.5°	512.5	515.0	489.0	456.8	386.2	346.6	286.0	174.6	81.7	39.6	26.0
15°	636.3	633.8	623.9	597.9	534.8	496.4	441.9	293.4	137.4	49.5	27.2
17.5°	734.1	724.2	720.5	709.3	668.5	647.4	588.0	432.0	217.9	66.8	28.5
20°	831.9	829.4	825.7	813.3	786.1	771.2	725.4	571.9	324.3	95.3	30.9
22.5°	974.3	960.6	963.1	935.9	913.6	887.6	850.5	720.5	446.9	136.2	34.7
25°	1141.4	1140.1	1120.3	1108.0	1070.8	1042.4	992.8	864.1	583.1	196.8	38.4
27.5°	1338.2	1324.6	1315.9	1294.9	1256.5	1224.3	1156.2	1006.5	730.4	264.9	43.3
30°	1543.7	1543.7	1527.6	1495.4	1458.3	1418.7	1349.4	1156.2	876.5	351.6	49.5
32.5°	1783.9	1788.8	1749.2	1700.9	1652.7	1625.4	1535.1	1325.8	1016.4	450.6	56.9
35°	2016.6	2010.4	1944.8	1891.6	1855.7	1826.0	1749.2	1511.5	1174.8	565.7	66.8
37.5°	2239.4	2223.4	2114.4	2038.9	2022.8	2003.0	1926.2	1697.2	1332.0	693.3	79.2
40°	2399.1	2374.4	2261.7	2157.7	2134.2	2123.1	2063.7	1865.6	1497.9	835.6	95.3
42.5°	2468.5	2440.0	2362.0	2277.8	2225.8	2199.8	2147.8	2003.0	1663.8	994.1	118.8
45°	2482.1	2459.8	2404.1	2384.3	2313.7	2274.1	2203.5	2100.8	1818.5	1151.3	151.0
47.5°	2432.6	2422.7	2389.2	2431.3	2395.4	2341.0	2255.5	2173.8	1956.0	1341.9	195.6
50°	2311.2	2303.8	2319.9	2430.1	2454.8	2393.0	2312.5	2230.8	2074.8	1538.8	258.7
52.5°	2147.8	2146.6	2222.1	2397.9	2480.8	2442.5	2368.2	2287.7	2168.9	1729.4	347.9
55°	1969.6	1990.6	2123.1	2368.2	2495.7	2478.4	2422.7	2338.5	2253.1	1906.4	491.5
57.5°	1954.7	1946.1	2073.6	2355.8	2504.4	2514.3	2477.1	2391.7	2324.9	2051.3	683.3
60°	2103.3	2083.5	2131.7	2381.8	2542.7	2560.1	2531.6	2432.6	2396.7	2165.2	935.9
62.5°	2275.3	2256.8	2281.5	2482.1	2618.3	2643.0	2607.1	2474.7	2454.8	2244.4	1207.0
65°	2412.8	2397.9	2444.9	2631.9	2723.5	2744.5	2719.8	2552.6	2480.8	2308.8	1427.4
67.5°	2435.0	2416.5	2514.3	2732.1	2829.9	2844.8	2825.0	2628.2	2472.2	2313.7	1478.1
70°	2371.9	2355.8	2495.7	2764.3	2875.8	2888.1	2825.0	2592.3	2354.6	2187.5	1208.2
72.5°	2177.5	2189.9	2370.7	2686.3	2812.6	2755.7	2622.0	2411.5	2202.3	1854.4	848.0
75°	1875.5	1889.1	2129.3	2472.2	2482.1	2412.8	2341.0	2218.4	1970.8	1221.9	588.0
77.5°	1333.3	1285.0	1644.0	2041.4	2005.5	2050.0	2056.2	1845.8	1650.2	636.3	393.7
80°	131.2	111.4	206.7	585.5	1293.7	1445.9	1505.3	1422.4	1216.9	284.7	206.7
82.5°	28.5	28.5	30.9	33.4	52.0	78.0	357.8	876.5	786.1	144.8	66.8
85°	16.1	16.1	19.8	23.5	30.9	34.7	40.9	54.5	211.7	52.0	12.4
87.5°	12.4	13.6	16.1	19.8	26.0	28.5	34.7	43.3	53.2	48.3	3.7
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-SA1C-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	26.0	24.8	23.5	22.3	21.0	21.0	19.8	19.8	19.8	19.8	19.8
5°	24.8	23.5	22.3	19.8	18.6	17.3	16.1	16.1	16.1	16.1	16.1
7.5°	24.8	23.5	21.0	18.6	16.1	14.9	13.6	12.4	12.4	13.6	13.6
10°	24.8	22.3	18.6	16.1	13.6	12.4	11.1	9.9	9.9	9.9	9.9
12.5°	23.5	21.0	17.3	14.9	12.4	9.9	7.4	6.2	6.2	6.2	6.2
15°	22.3	19.8	16.1	12.4	8.7	6.2	5.0	3.7	3.7	3.7	3.7
17.5°	22.3	18.6	14.9	11.1	6.2	3.7	2.5	1.2	1.2	1.2	2.5
20°	22.3	18.6	13.6	8.7	3.7	2.5	2.5	1.2	0.0	1.2	1.2
22.5°	22.3	17.3	11.1	6.2	3.7	2.5	1.2	0.0	0.0	0.0	0.0
25°	23.5	17.3	9.9	5.0	2.5	1.2	0.0	0.0	0.0	0.0	0.0
27.5°	23.5	16.1	8.7	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
30°	24.8	16.1	7.4	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	24.8	14.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	24.8	13.6	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	24.8	12.4	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	26.0	11.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	27.2	9.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	28.5	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	32.2	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	37.1	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	44.6	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	58.2	7.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	84.2	7.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	141.1	7.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	247.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	418.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	545.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	414.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	198.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	87.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.4	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.9	2.5	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.2	2.5	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
85°	3.7	2.5	2.5	2.5	1.2	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$



Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)