

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: P1067581

Luminaire Tested: **NAV-SA1A-830-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067581
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-830-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 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: 2929.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29.2
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

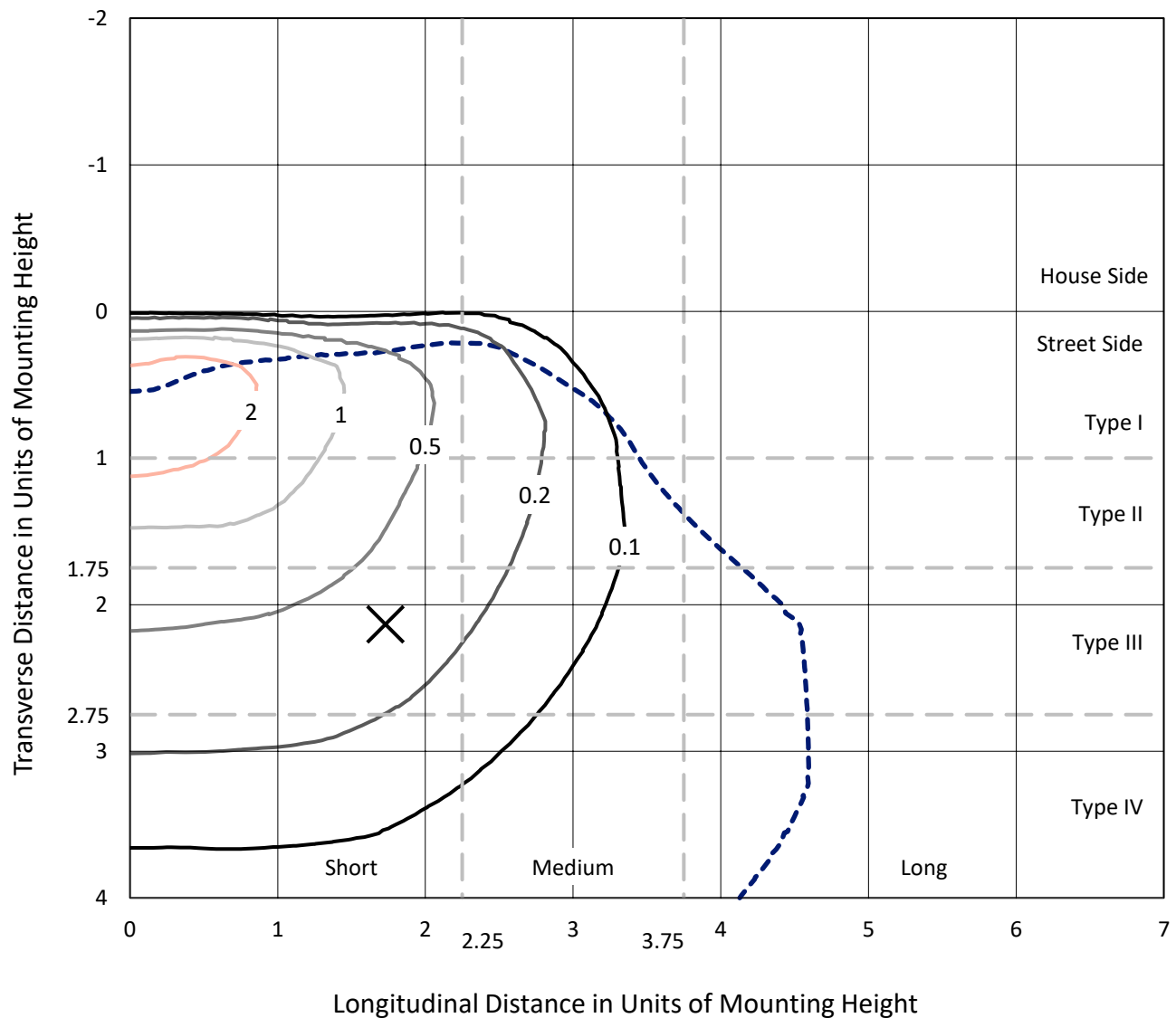


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

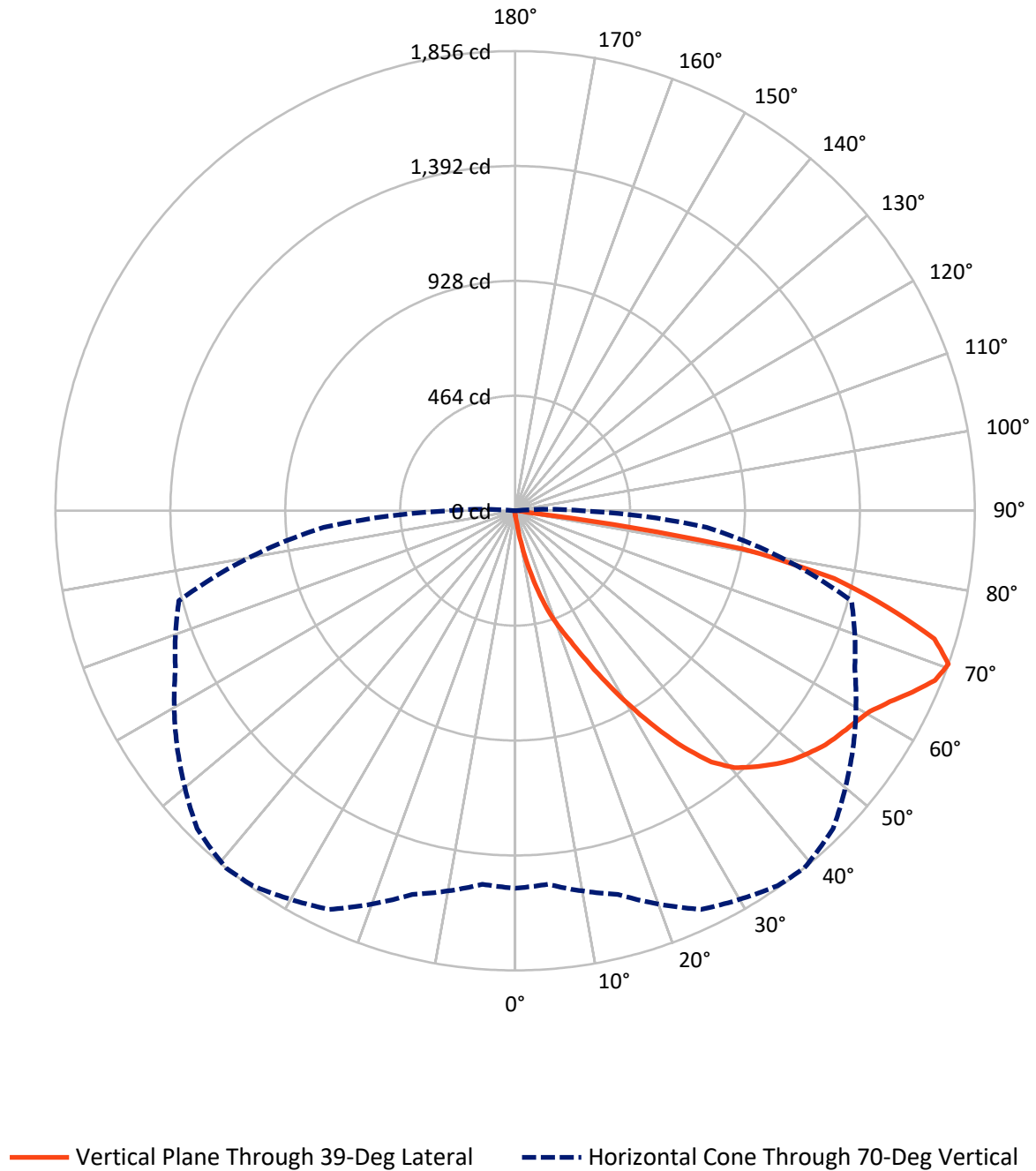


Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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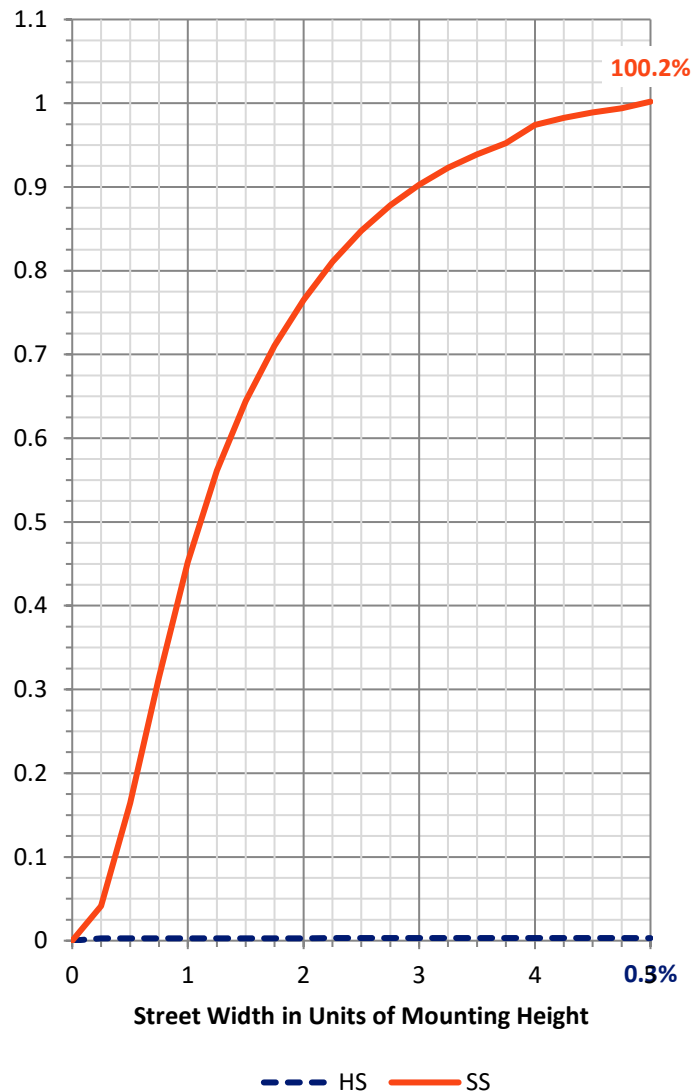
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9.0	0.0	9.0
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	2920.3	0.0	2920.3
	% Fixture	99.7	0.0	99.7
Total	Lumens	2929.3	0.0	2929.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	36.0	1.2
20°-30°	122.2	4.2
30°-40°	287.2	9.8
40°-50°	466.4	15.9
50°-60°	591.0	20.2
60°-70°	750.7	25.6
70°-80°	610.0	20.8
80°-90°	62.8	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°	2929.3	100.0
0°-180°	2929.3	100.0



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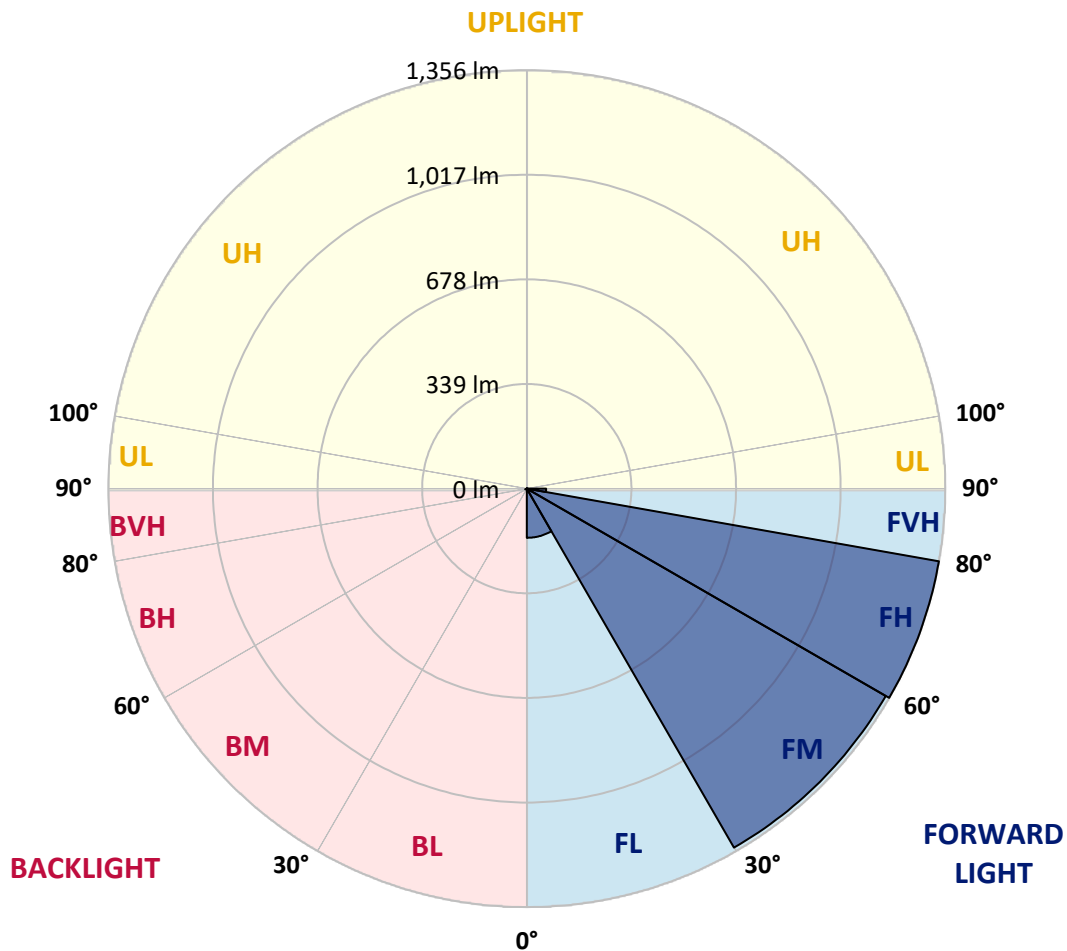
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.4	5.4			
FM	(30°-60°)	1342.8	45.8			
FH	(60°-80°)	1355.7	46.3			G1/1800
FVH	(80°-90°)	62.4	2.1			G1/100
BL	(0°-30°)	2.0	0.1	B0/110		
BM	(30°-60°)	1.7	0.1	B0/220		
BH	(60°-80°)	5.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type IV Short



REPORT NUMBER: P1067581

CATALOG NUMBER: NAV-SA1A-830-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	20.7	20.7	20.7	19.9	19.9	19.1	19.1	18.3	17.5	17.5	16.7
5°	39.0	39.8	37.4	32.6	29.4	27.8	26.2	22.3	19.9	18.3	16.7
7.5°	106.6	103.4	98.6	82.7	63.6	54.1	46.1	32.6	23.9	19.1	16.7
10°	224.3	215.5	202.0	180.5	143.2	128.0	99.4	59.6	33.4	21.5	16.7
12.5°	329.3	330.8	314.1	293.5	248.1	222.7	183.7	112.1	52.5	25.4	16.7
15°	408.8	407.2	400.8	384.1	343.6	318.9	283.9	188.5	88.3	31.8	17.5
17.5°	471.6	465.3	462.9	455.7	429.5	415.9	377.8	277.6	140.0	42.9	18.3
20°	534.4	532.9	530.5	522.5	505.0	495.5	466.1	367.4	208.4	61.2	19.9
22.5°	625.9	617.2	618.7	601.3	586.9	570.2	546.4	462.9	287.1	87.5	22.3
25°	733.3	732.5	719.8	711.8	687.9	669.6	637.8	555.1	374.6	126.5	24.7
27.5°	859.7	851.0	845.4	831.9	807.2	786.6	742.8	646.6	469.2	170.2	27.8
30°	991.7	991.7	981.4	960.7	936.9	911.4	866.9	742.8	563.1	225.9	31.8
32.5°	1146.0	1149.2	1123.8	1092.8	1061.7	1044.2	986.2	851.8	652.9	289.5	36.6
35°	1295.6	1291.6	1249.4	1215.2	1192.2	1173.1	1123.8	971.1	754.7	363.5	42.9
37.5°	1438.7	1428.4	1358.4	1309.9	1299.5	1286.8	1237.5	1090.4	855.8	445.4	50.9
40°	1541.3	1525.4	1453.0	1386.2	1371.1	1364.0	1325.8	1198.5	962.3	536.8	61.2
42.5°	1585.8	1567.6	1517.4	1463.4	1430.0	1413.3	1379.9	1286.8	1068.9	638.6	76.3
45°	1594.6	1580.3	1544.5	1531.8	1486.4	1461.0	1415.6	1349.6	1168.3	739.6	97.0
47.5°	1562.8	1556.4	1534.9	1562.0	1538.9	1503.9	1449.1	1396.6	1256.6	862.1	125.7
50°	1484.8	1480.1	1490.4	1561.2	1577.1	1537.3	1485.6	1433.1	1332.9	988.6	166.2
52.5°	1379.9	1379.1	1427.6	1540.5	1593.8	1569.1	1521.4	1469.7	1393.4	1111.0	223.5
55°	1265.3	1278.9	1364.0	1521.4	1603.3	1592.2	1556.4	1502.3	1447.5	1224.8	315.7
57.5°	1255.8	1250.2	1332.1	1513.5	1608.9	1615.3	1591.4	1536.5	1493.6	1317.8	439.0
60°	1351.2	1338.5	1369.5	1530.2	1633.6	1644.7	1626.4	1562.8	1539.7	1391.0	601.3
62.5°	1461.8	1449.8	1465.8	1594.6	1682.1	1698.0	1674.9	1589.8	1577.1	1441.9	775.4
65°	1550.1	1540.5	1570.7	1690.8	1749.7	1763.2	1747.3	1639.9	1593.8	1483.2	917.0
67.5°	1564.4	1552.4	1615.3	1755.2	1818.1	1827.6	1814.9	1688.4	1588.2	1486.4	949.6
70°	1523.8	1513.5	1603.3	1775.9	1847.5	1855.5	1814.9	1665.4	1512.7	1405.3	776.2
72.5°	1398.9	1406.9	1523.0	1725.8	1806.9	1770.4	1684.5	1549.3	1414.9	1191.4	544.8
75°	1204.9	1213.6	1367.9	1588.2	1594.6	1550.1	1503.9	1425.2	1266.1	785.0	377.8
77.5°	856.5	825.5	1056.2	1311.5	1288.4	1317.0	1321.0	1185.8	1060.1	408.8	252.9
80°	84.3	71.6	132.8	376.2	831.1	928.9	967.1	913.8	781.8	182.9	132.8
82.5°	18.3	18.3	19.9	21.5	33.4	50.1	229.8	563.1	505.0	93.1	42.9
85°	10.3	10.3	12.7	15.1	19.9	22.3	26.2	35.0	136.0	33.4	8.0
87.5°	8.0	8.7	10.3	12.7	16.7	18.3	22.3	27.8	34.2	31.0	2.4
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-SA1A-830-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	16.7	15.9	15.1	14.3	13.5	13.5	12.7	12.7	12.7	12.7	12.7
5°	15.9	15.1	14.3	12.7	11.9	11.1	10.3	10.3	10.3	10.3	10.3
7.5°	15.9	15.1	13.5	11.9	10.3	9.5	8.7	8.0	8.0	8.7	8.7
10°	15.9	14.3	11.9	10.3	8.7	8.0	7.2	6.4	6.4	6.4	6.4
12.5°	15.1	13.5	11.1	9.5	8.0	6.4	4.8	4.0	4.0	4.0	4.0
15°	14.3	12.7	10.3	8.0	5.6	4.0	3.2	2.4	2.4	2.4	2.4
17.5°	14.3	11.9	9.5	7.2	4.0	2.4	1.6	0.8	0.8	0.8	1.6
20°	14.3	11.9	8.7	5.6	2.4	1.6	1.6	0.8	0.0	0.8	0.8
22.5°	14.3	11.1	7.2	4.0	2.4	1.6	0.8	0.0	0.0	0.0	0.0
25°	15.1	11.1	6.4	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
27.5°	15.1	10.3	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
30°	15.9	10.3	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	15.9	9.5	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	15.9	8.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	15.9	8.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	16.7	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	17.5	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	18.3	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	20.7	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	23.9	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	28.6	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	37.4	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	54.1	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	90.7	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	159.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	268.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	350.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	266.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	127.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	56.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.5	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	1.6	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
85°	2.4	1.6	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	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

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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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

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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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)