

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: P1067618

Luminaire Tested: **NAV-SA4B-835-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067618
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-835-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
80CRI 3500K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15419.6 lumens
Efficiency: N/A
Efficacy: 107.0 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

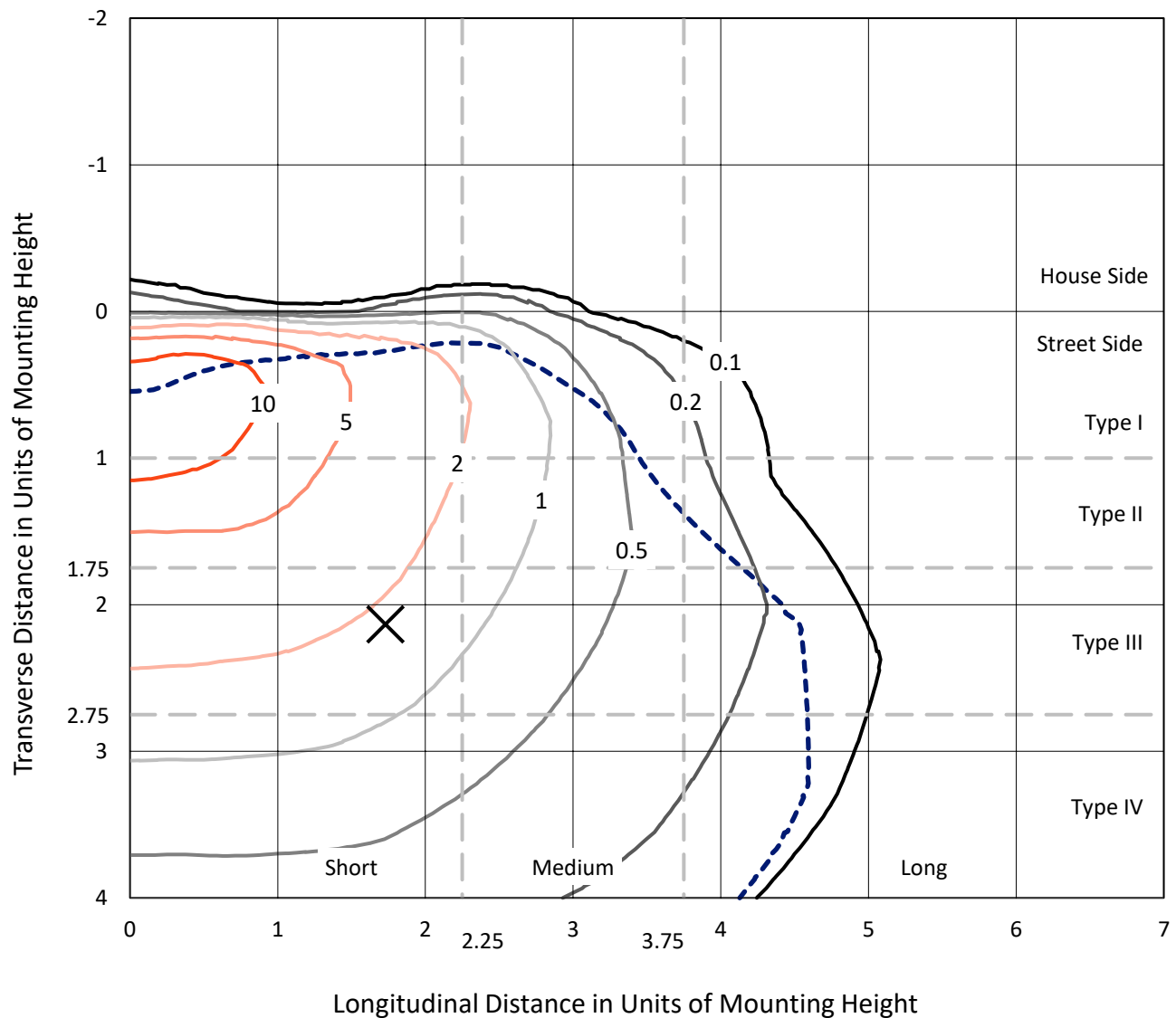


REPORT NUMBER: P1067618

CATALOG NUMBER: NAV-SA4B-835-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

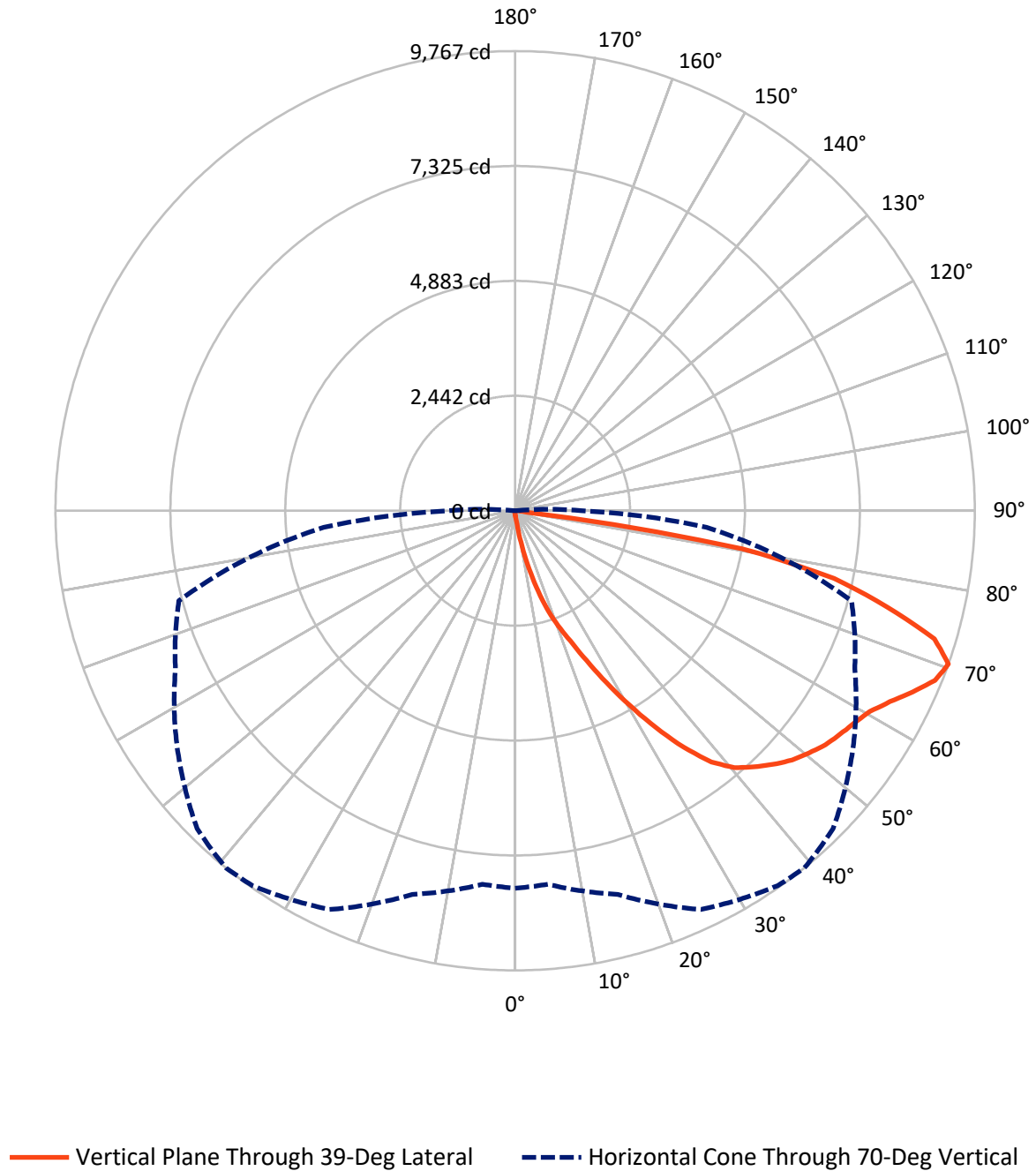


Based on 15 foot mounting height. Maximum calculated value = 16.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P1067618

CATALOG NUMBER: NAV-SA4B-835-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067618

CATALOG NUMBER: NAV-SA4B-835-U-T4BC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.5	0.0	47.5
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	15372.1	0.0	15372.1
	% Fixture	99.7	0.0	99.7
Total	Lumens	15419.6	0.0	15419.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.1
10°-20°	189.6	1.2
20°-30°	643.3	4.2
30°-40°	1511.8	9.8
40°-50°	2454.9	15.9
50°-60°	3110.9	20.2
60°-70°	3951.6	25.6
70°-80°	3210.7	20.8
80°-90°	330.6	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°	15419.6	100.0
0°-180°	15419.6	100.0



REPORT NUMBER: P1067618

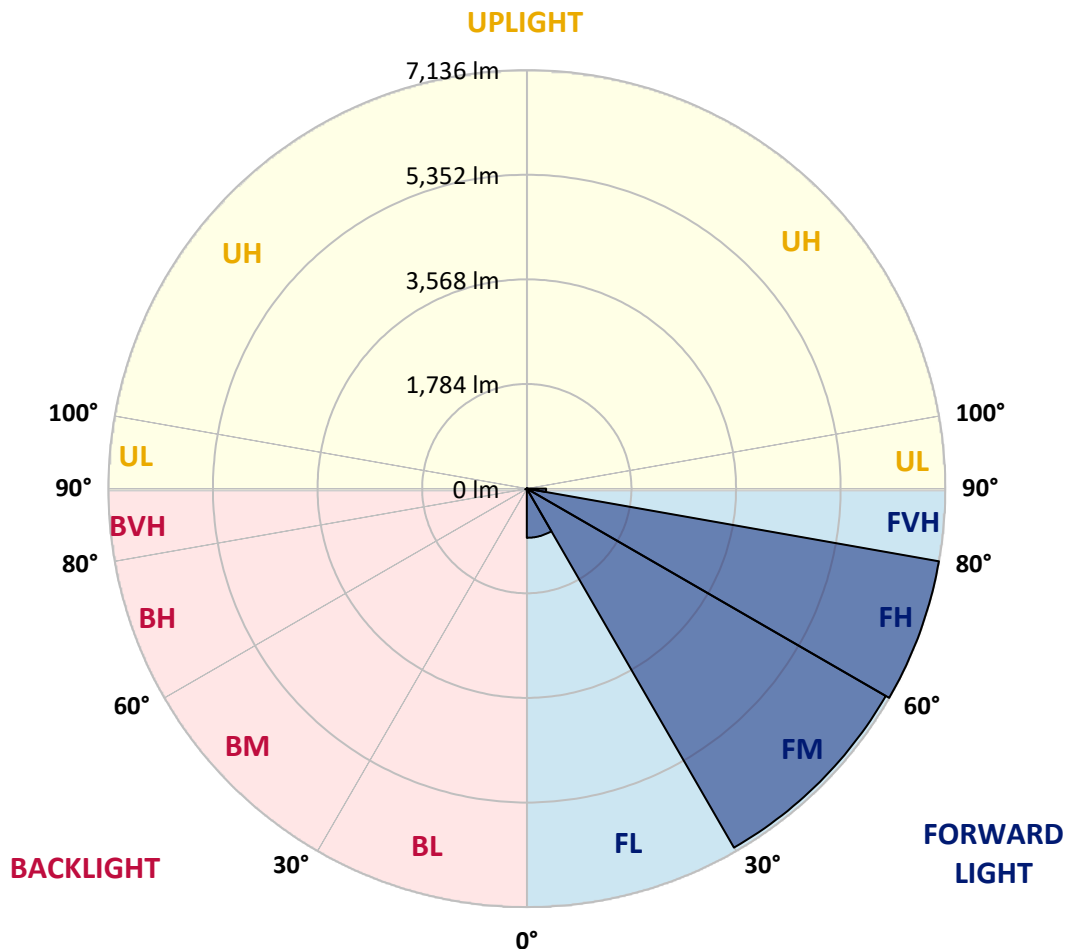
CATALOG NUMBER: NAV-SA4B-835-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	838.8	5.4			
FM	(30°-60°)	7068.5	45.8			
FH	(60°-80°)	7136.2	46.3			G3/7500
FVH	(80°-90°)	328.6	2.1			G3/500
BL	(0°-30°)	10.3	0.1	B0/110		
BM	(30°-60°)	9.1	0.1	B0/220		
BH	(60°-80°)	26.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G3

Type IV Short



REPORT NUMBER: P1067618

CATALOG NUMBER: NAV-SA4B-835-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2.5°	108.8	108.8	108.8	104.7	104.7	100.5	100.5	96.3	92.1	92.1	87.9
5°	205.1	209.3	196.8	171.6	154.9	146.5	138.2	117.2	104.7	96.3	87.9
7.5°	561.0	544.2	519.1	435.4	334.9	284.7	242.8	171.6	125.6	100.5	87.9
10°	1180.6	1134.5	1063.3	950.3	753.5	674.0	523.3	314.0	175.8	113.0	87.9
12.5°	1733.2	1741.5	1653.6	1544.8	1306.1	1172.2	967.1	590.3	276.3	134.0	87.9
15°	2151.8	2143.4	2109.9	2022.0	1808.5	1678.7	1494.5	992.2	464.7	167.5	92.1
17.5°	2482.5	2449.0	2436.5	2398.8	2260.6	2189.5	1988.5	1461.0	736.8	226.1	96.3
20°	2813.2	2804.9	2792.3	2750.4	2658.3	2608.1	2453.2	1934.1	1096.8	322.4	104.7
22.5°	3294.7	3248.6	3257.0	3164.9	3089.5	3001.6	2876.0	2436.5	1511.3	460.5	117.2
25°	3859.8	3855.6	3788.7	3746.8	3621.2	3524.9	3357.5	2922.1	1971.8	665.6	129.8
27.5°	4525.5	4479.4	4450.1	4378.9	4249.2	4140.3	3910.1	3403.5	2470.0	895.9	146.5
30°	5220.4	5220.4	5166.0	5057.1	4931.5	4797.6	4563.1	3910.1	2963.9	1188.9	167.5
32.5°	6032.6	6049.3	5915.3	5752.1	5588.8	5496.7	5191.1	4483.6	3437.0	1523.8	192.6
35°	6819.6	6798.7	6576.8	6396.8	6275.4	6174.9	5915.3	5111.6	3972.9	1913.2	226.1
37.5°	7573.1	7518.7	7150.3	6894.9	6840.5	6773.5	6514.0	5739.5	4504.5	2344.4	267.9
40°	8113.2	8029.5	7648.5	7296.8	7217.3	7179.6	6978.7	6308.9	5065.5	2825.8	322.4
42.5°	8347.6	8251.3	7987.6	7702.9	7527.1	7439.2	7263.4	6773.5	5626.5	3361.7	401.9
45°	8393.7	8318.3	8129.9	8062.9	7824.3	7690.4	7451.7	7104.3	6149.8	3893.3	510.7
47.5°	8226.2	8192.7	8079.7	8222.0	8100.6	7916.4	7627.6	7351.3	6614.5	4538.0	661.4
50°	7816.0	7790.8	7845.3	8217.8	8301.6	8092.3	7820.1	7543.8	7016.4	5203.7	875.0
52.5°	7263.4	7259.2	7514.5	8109.0	8389.5	8259.7	8008.5	7736.4	7334.5	5848.4	1176.4
55°	6660.5	6731.7	7179.6	8008.5	8439.7	8381.1	8192.7	7908.1	7619.2	6447.0	1662.0
57.5°	6610.3	6581.0	7012.2	7966.7	8469.0	8502.5	8376.9	8088.1	7862.0	6936.8	2310.9
60°	7112.6	7045.7	7208.9	8054.6	8598.8	8657.4	8561.1	8226.2	8104.8	7322.0	3164.9
62.5°	7694.5	7631.8	7715.5	8393.7	8854.2	8937.9	8816.5	8368.6	8301.6	7589.9	4081.7
65°	8159.2	8109.0	8268.1	8900.2	9210.0	9281.2	9197.5	8632.3	8389.5	7807.6	4826.9
67.5°	8234.6	8171.8	8502.5	9239.3	9570.0	9620.3	9553.3	8887.7	8360.2	7824.3	4998.5
70°	8021.1	7966.7	8439.7	9348.2	9724.9	9766.8	9553.3	8766.3	7962.5	7397.3	4085.9
72.5°	7363.8	7405.7	8016.9	9084.4	9511.4	9318.9	8866.7	8155.0	7447.6	6271.2	2867.7
75°	6342.3	6388.4	7200.6	8360.2	8393.7	8159.2	7916.4	7502.0	6664.7	4131.9	1988.5
77.5°	4508.7	4345.5	5559.5	6903.3	6781.9	6932.6	6953.6	6241.9	5580.4	2151.8	1331.3
80°	443.8	376.8	699.1	1980.2	4374.8	4889.7	5090.6	4810.1	4115.2	962.9	699.1
82.5°	96.3	96.3	104.7	113.0	175.8	263.7	1209.9	2963.9	2658.3	489.8	226.1
85°	54.4	54.4	67.0	79.5	104.7	117.2	138.2	184.2	715.9	175.8	41.9
87.5°	41.9	46.1	54.4	67.0	87.9	96.3	117.2	146.5	180.0	163.3	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067618

CATALOG NUMBER: NAV-SA4B-835-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2.5°	87.9	83.7	79.5	75.4	71.2	71.2	67.0	67.0	67.0	67.0	67.0
5°	83.7	79.5	75.4	67.0	62.8	58.6	54.4	54.4	54.4	54.4	54.4
7.5°	83.7	79.5	71.2	62.8	54.4	50.2	46.1	41.9	41.9	46.1	46.1
10°	83.7	75.4	62.8	54.4	46.1	41.9	37.7	33.5	33.5	33.5	33.5
12.5°	79.5	71.2	58.6	50.2	41.9	33.5	25.1	20.9	20.9	20.9	20.9
15°	75.4	67.0	54.4	41.9	29.3	20.9	16.7	12.6	12.6	12.6	12.6
17.5°	75.4	62.8	50.2	37.7	20.9	12.6	8.4	4.2	4.2	4.2	8.4
20°	75.4	62.8	46.1	29.3	12.6	8.4	8.4	4.2	0.0	4.2	4.2
22.5°	75.4	58.6	37.7	20.9	12.6	8.4	4.2	0.0	0.0	0.0	0.0
25°	79.5	58.6	33.5	16.7	8.4	4.2	0.0	0.0	0.0	0.0	0.0
27.5°	79.5	54.4	29.3	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
30°	83.7	54.4	25.1	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	83.7	50.2	16.7	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	83.7	46.1	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	83.7	41.9	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	87.9	37.7	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	92.1	33.5	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	96.3	29.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	108.8	29.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	125.6	29.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	150.7	29.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	196.8	25.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	284.7	25.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	477.2	25.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	837.3	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1415.0	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1846.2	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1402.4	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	669.8	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	297.2	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	129.8	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.2	8.4	4.2	4.2	4.2	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	8.4	4.2	4.2	4.2	4.2	4.2	0.0	0.0	0.0	0.0
85°	12.6	8.4	8.4	8.4	4.2	4.2	4.2	0.0	0.0	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

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: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$



Color Vector Graphics



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

CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)