

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: P1067352

Luminaire Tested: **NAV-SA3D-830-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067352
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-830-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14299.7 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 160.9
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



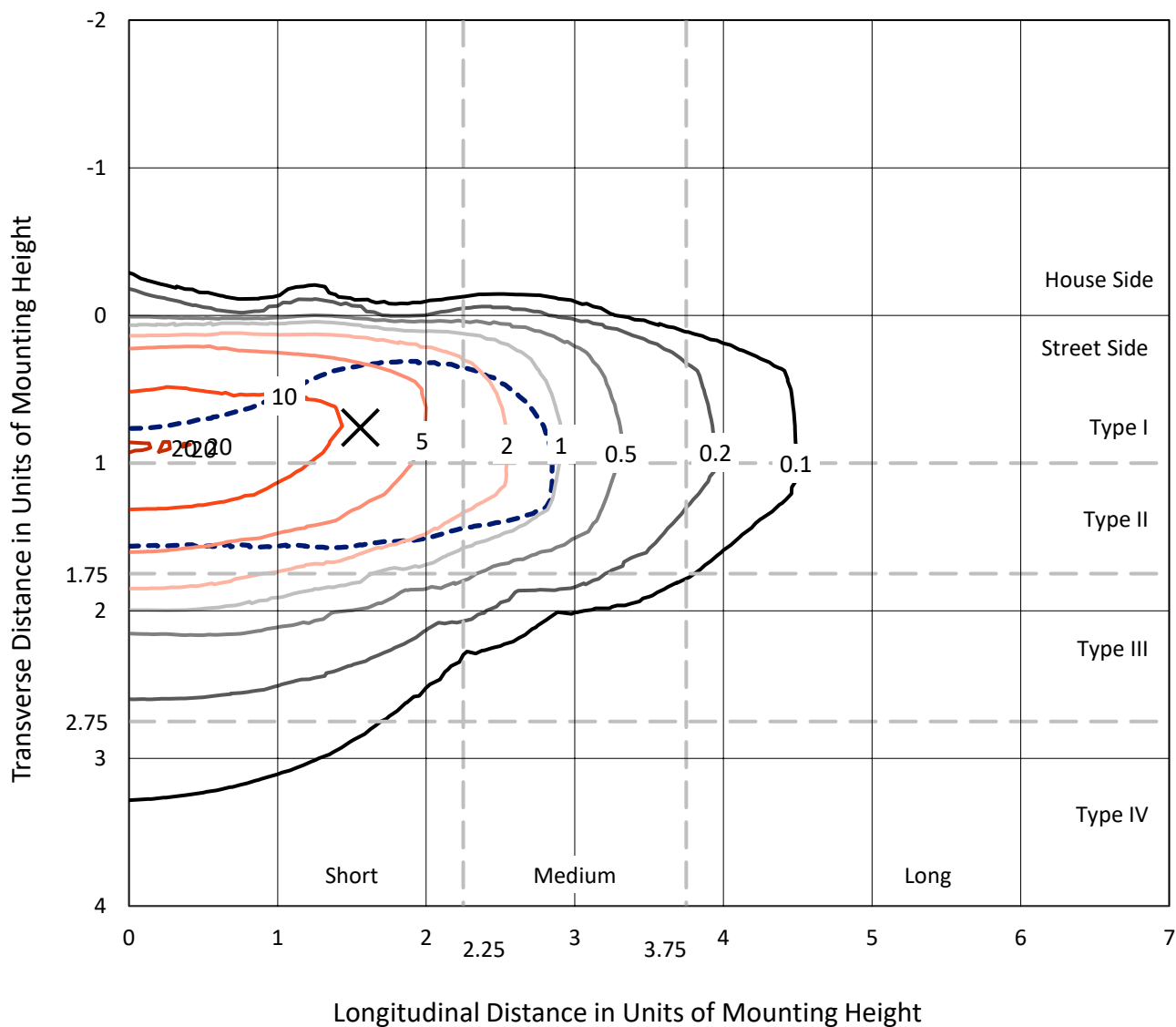
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

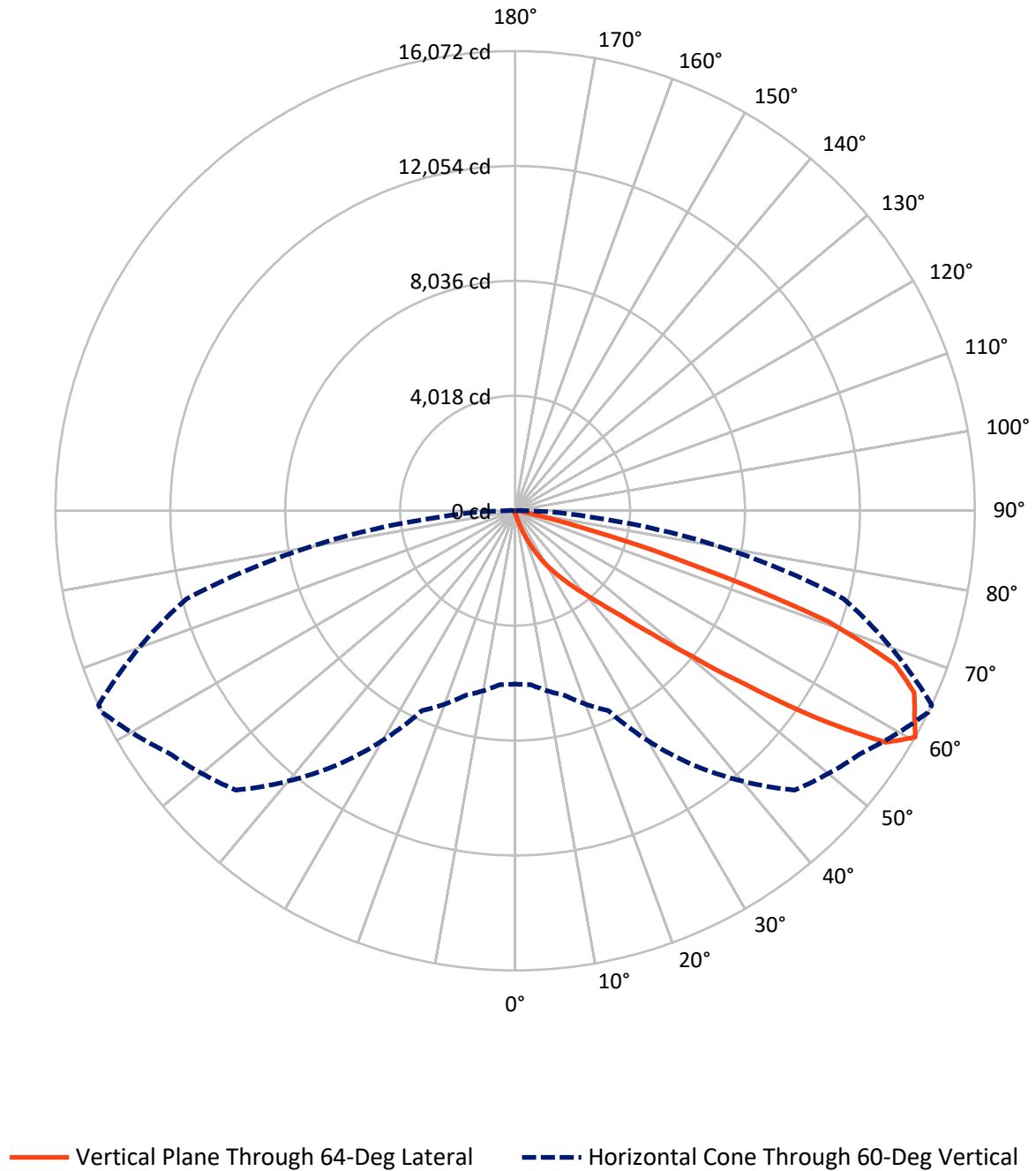


Based on 15 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	58.0	0.0	58.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	14241.8	0.0	14241.8
	% Fixture	99.6	0.0	99.6
Total	Lumens	14299.7	0.0	14299.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.1
10°-20°	140.5	1.0
20°-30°	466.7	3.3
30°-40°	1245.3	8.7
40°-50°	3165.3	22.1
50°-60°	4614.3	32.3
60°-70°	3564.1	24.9
70°-80°	978.8	6.8
80°-90°	110.5	0.8
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°	14299.7	100.0
0°-180°	14299.7	100.0



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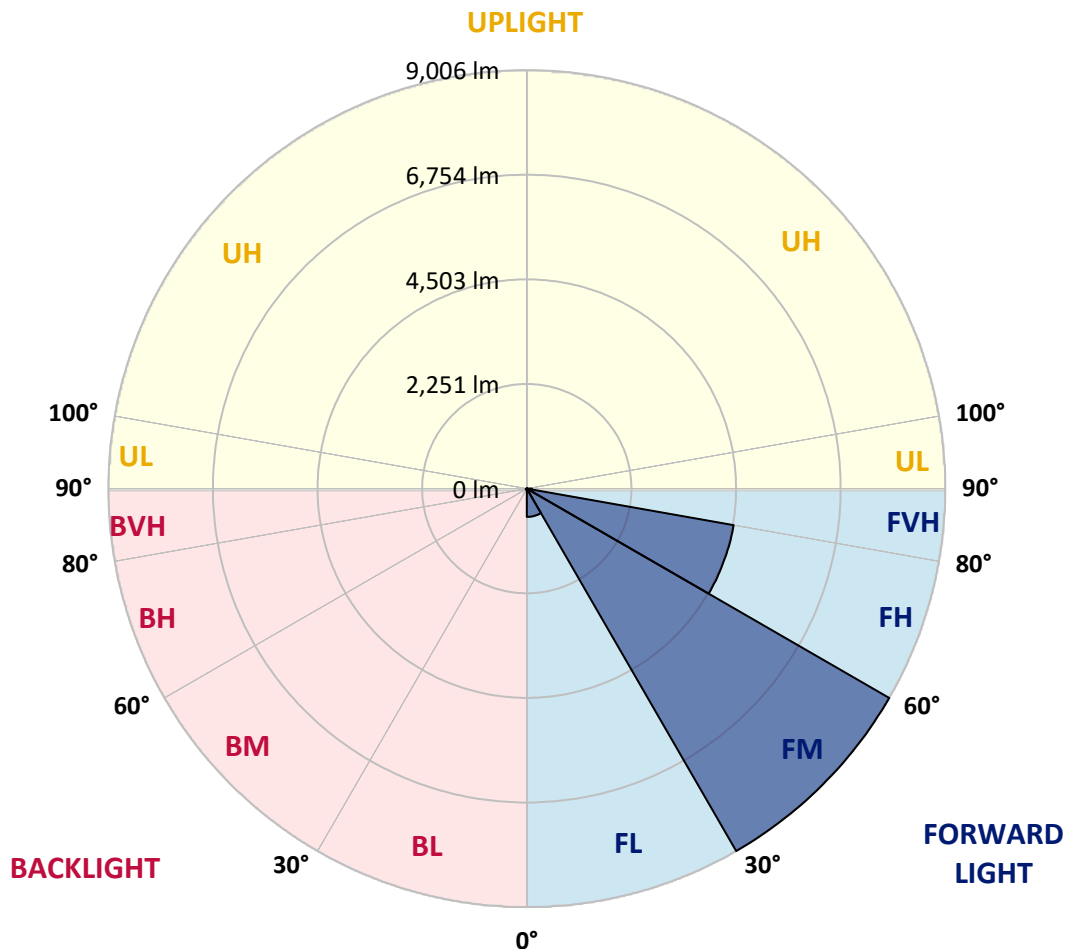
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.4	4.3			
FM	(30°-60°)	9005.7	63.0			
FH	(60°-80°)	4519.7	31.6			G2/5000
FVH	(80°-90°)	107.9	0.8			G2/225
BL	(0°-30°)	13.0	0.1	B0/110		
BM	(30°-60°)	19.2	0.1	B0/220		
BH	(60°-80°)	23.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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 II Short



REPORT NUMBER: P1067352

CATALOG NUMBER: NAV-SA3D-830-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	126.0	126.0	126.0	122.0	118.1	118.1	114.2	110.2	110.2	102.3	98.4
5°	192.9	192.9	185.0	177.1	165.3	149.6	133.8	122.0	122.0	110.2	102.3
7.5°	377.9	389.7	354.3	311.0	251.9	212.6	169.3	141.7	137.8	118.1	102.3
10°	818.7	810.9	755.8	649.5	511.7	370.0	236.2	173.2	165.3	126.0	102.3
12.5°	1232.0	1243.8	1184.8	1066.7	901.4	657.3	405.4	224.4	216.5	137.8	102.3
15°	1586.3	1586.3	1546.9	1487.9	1306.8	1051.0	653.4	334.6	307.0	149.6	98.4
17.5°	1830.3	1826.4	1810.7	1794.9	1688.6	1424.9	999.8	535.3	472.3	177.1	98.4
20°	2105.9	2094.1	2113.7	2082.3	1999.6	1791.0	1365.9	795.1	736.1	224.4	98.4
22.5°	2393.2	2405.0	2420.8	2389.3	2298.7	2117.7	1751.6	1129.7	1066.7	311.0	102.3
25°	2759.3	2751.4	2786.8	2759.3	2645.1	2432.6	2113.7	1495.8	1405.2	433.0	110.2
27.5°	3208.0	3192.3	3215.9	3145.0	2995.5	2779.0	2436.5	1869.7	1763.4	621.9	126.0
30°	3802.4	3814.2	3707.9	3625.2	3412.7	3125.3	2794.7	2271.2	2161.0	846.3	141.7
32.5°	4739.2	4656.5	4491.2	4156.6	3877.2	3511.1	3152.9	2621.5	2523.1	1133.6	165.3
35°	6199.5	6215.3	5853.1	5026.5	4420.4	3995.3	3546.5	3007.3	2936.4	1460.3	196.8
37.5°	7978.7	7935.4	7616.6	6573.5	5215.5	4597.5	3995.3	3428.4	3326.1	1814.6	236.2
40°	9994.0	9813.0	9628.0	8919.4	6872.6	5353.2	4562.1	3916.5	3837.8	2224.0	299.2
42.5°	11607.9	11560.6	11592.1	11296.9	9635.8	6640.4	5313.9	4514.8	4420.4	2731.7	409.4
45°	12403.0	12336.1	12525.0	12745.4	12320.3	9380.0	6526.2	5278.5	5152.5	3330.0	578.6
47.5°	12190.4	12143.2	12548.6	12981.6	13548.4	12556.5	8506.1	6420.0	6203.5	4097.6	830.5
50°	11143.4	11147.3	11812.6	12619.5	13516.9	14166.4	11438.6	7982.6	7711.0	5117.1	1224.2
52.5°	10123.9	10155.4	10860.0	12036.9	13048.5	14355.3	14012.9	10088.5	9647.6	6317.6	1688.6
55°	9076.9	9092.6	9714.6	11371.7	12828.1	13792.5	15335.5	12800.5	12332.1	7813.4	2141.3
57.5°	8069.2	8069.2	8301.5	9773.6	12588.0	13741.3	15178.0	15280.4	14898.5	9521.7	2475.9
60°	6061.8	6101.1	6679.7	7711.0	10856.1	13816.1	14776.5	16071.5	16071.5	11891.3	2731.7
62.5°	3062.4	3121.4	3841.7	4845.5	7447.3	12784.8	14839.5	15674.0	15737.0	13981.4	3314.3
65°	1436.7	1503.6	1889.4	2597.9	4007.1	8998.2	14186.1	15335.5	15315.8	13583.9	4542.4
67.5°	1031.3	1051.0	1180.9	1515.4	2157.0	3944.1	10828.5	14323.9	14331.7	11541.0	5223.3
70°	925.0	925.0	956.5	1054.9	1298.9	1763.4	5262.7	11600.0	12162.9	8911.6	4841.5
72.5°	913.2	905.3	897.5	901.4	877.8	885.6	1806.7	6549.8	7352.8	6235.0	3861.4
75°	889.6	889.6	881.7	854.2	700.6	570.8	621.9	2649.1	3062.4	4164.5	2865.6
77.5°	704.6	775.4	858.1	806.9	641.6	429.0	362.1	767.6	968.3	2554.6	2078.3
80°	326.7	330.6	326.7	342.5	409.4	307.0	267.7	373.9	377.9	1417.0	1287.1
82.5°	236.2	240.1	228.3	204.7	181.1	165.3	220.4	275.5	295.2	649.5	480.2
85°	70.9	66.9	78.7	106.3	126.0	145.6	185.0	232.2	244.0	240.1	70.9
87.5°	31.5	31.5	39.4	55.1	74.8	110.2	161.4	212.6	216.5	248.0	19.7
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-SA3D-830-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	98.4	94.5	90.5	86.6	82.7	78.7	74.8	74.8	78.7	78.7	78.7
5°	94.5	90.5	82.7	74.8	70.9	66.9	63.0	63.0	66.9	66.9	66.9
7.5°	94.5	86.6	78.7	70.9	63.0	59.0	55.1	55.1	55.1	59.0	59.0
10°	94.5	86.6	74.8	63.0	55.1	51.2	47.2	43.3	47.2	47.2	47.2
12.5°	90.5	82.7	70.9	59.0	47.2	39.4	35.4	35.4	35.4	35.4	35.4
15°	86.6	78.7	66.9	51.2	39.4	31.5	23.6	23.6	23.6	27.6	27.6
17.5°	82.7	74.8	59.0	39.4	27.6	19.7	15.7	15.7	15.7	19.7	19.7
20°	82.7	70.9	51.2	31.5	19.7	11.8	7.9	7.9	7.9	11.8	15.7
22.5°	82.7	70.9	47.2	23.6	11.8	7.9	3.9	3.9	3.9	3.9	3.9
25°	82.7	66.9	43.3	19.7	7.9	3.9	0.0	0.0	3.9	7.9	11.8
27.5°	82.7	63.0	35.4	11.8	7.9	3.9	0.0	3.9	7.9	7.9	7.9
30°	82.7	63.0	31.5	11.8	3.9	0.0	0.0	3.9	7.9	7.9	11.8
32.5°	86.6	59.0	27.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	90.5	55.1	23.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	98.4	55.1	15.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	110.2	59.0	15.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	137.8	63.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	192.9	78.7	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	283.4	118.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	413.3	161.4	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	507.8	161.4	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	503.8	102.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	385.7	70.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	326.7	51.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	393.6	39.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	700.6	35.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1125.8	35.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1259.6	35.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	984.1	31.5	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	539.3	27.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	271.6	19.7	7.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	114.2	15.7	7.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	39.4	15.7	7.9	7.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0
85°	19.7	11.8	11.8	7.9	7.9	3.9	3.9	0.0	0.0	0.0	0.0
87.5°	11.8	11.8	11.8	7.9	7.9	3.9	3.9	0.0	0.0	0.0	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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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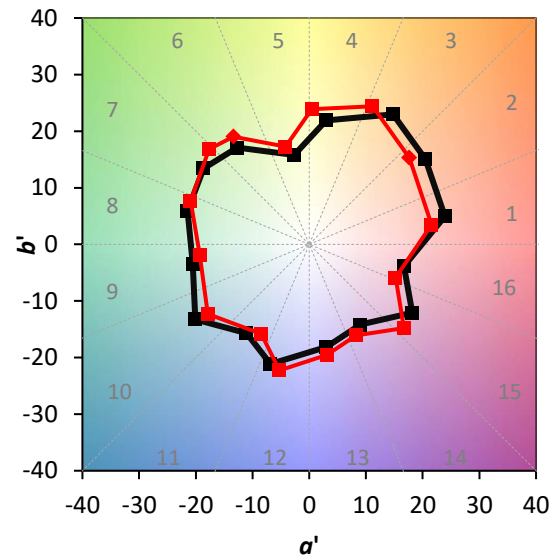
TM-30-18

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)