

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: McGRAW-EDISON

Report Number: P317587

Luminaire Tested: **GLEON-SA3A-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11778 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

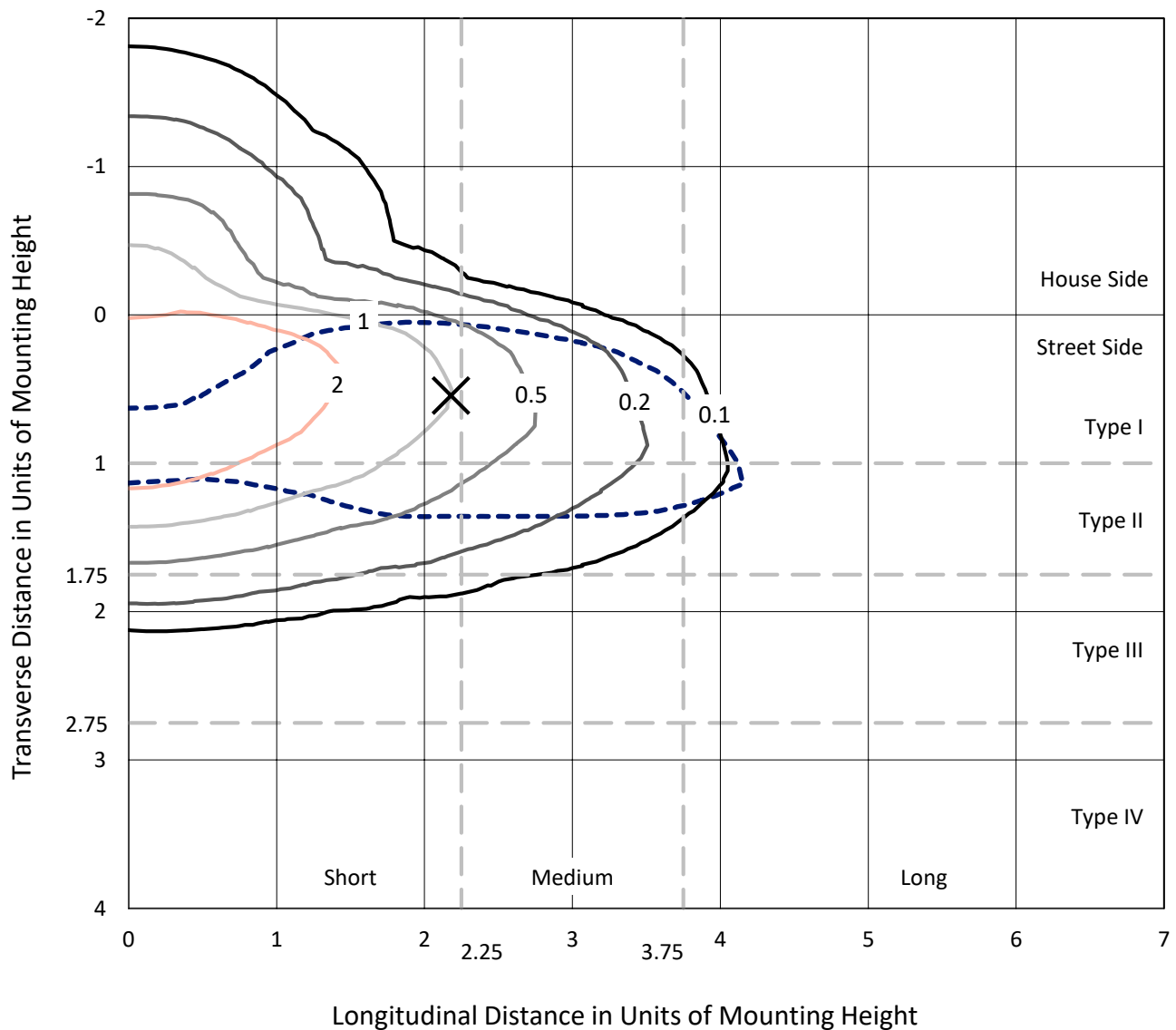
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317587
 CATALOG NUMBER: GLEON-SA3A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

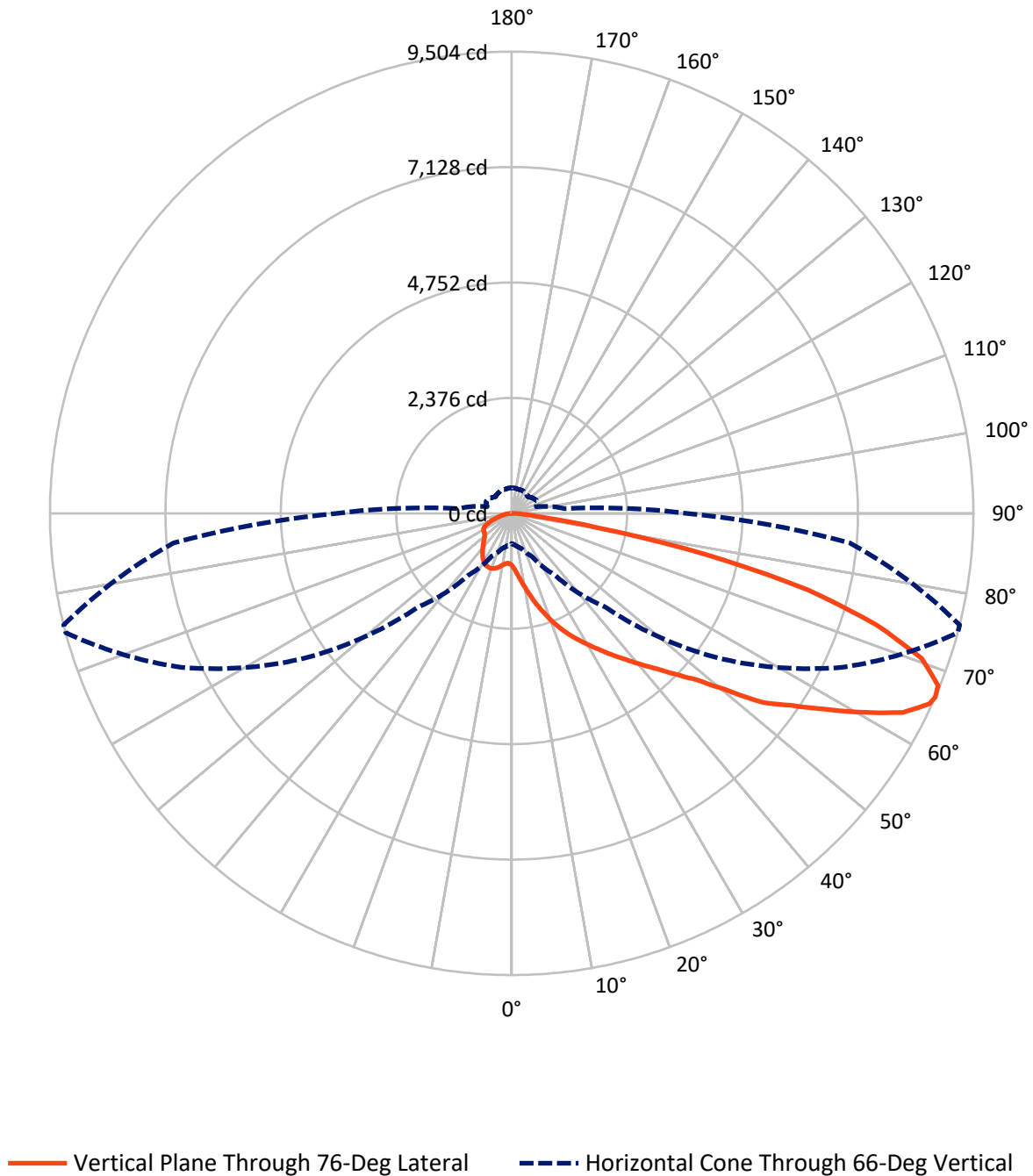
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P317587
CATALOG NUMBER: GLEON-SA3A-830-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317587

CATALOG NUMBER: GLEON-SA3A-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1981.8	0.0	1981.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9796.2	0.0	9796.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	11778.0	0.0	11778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.1
10°-20°	513.6	4.4
20°-30°	998.1	8.5
30°-40°	1629.1	13.8
40°-50°	2225.8	18.9
50°-60°	2592.6	22.0
60°-70°	2324.3	19.7
70°-80°	1174.6	10.0
80°-90°	189.7	1.6
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°	11778.0	100.0
0°-180°	11778.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317587

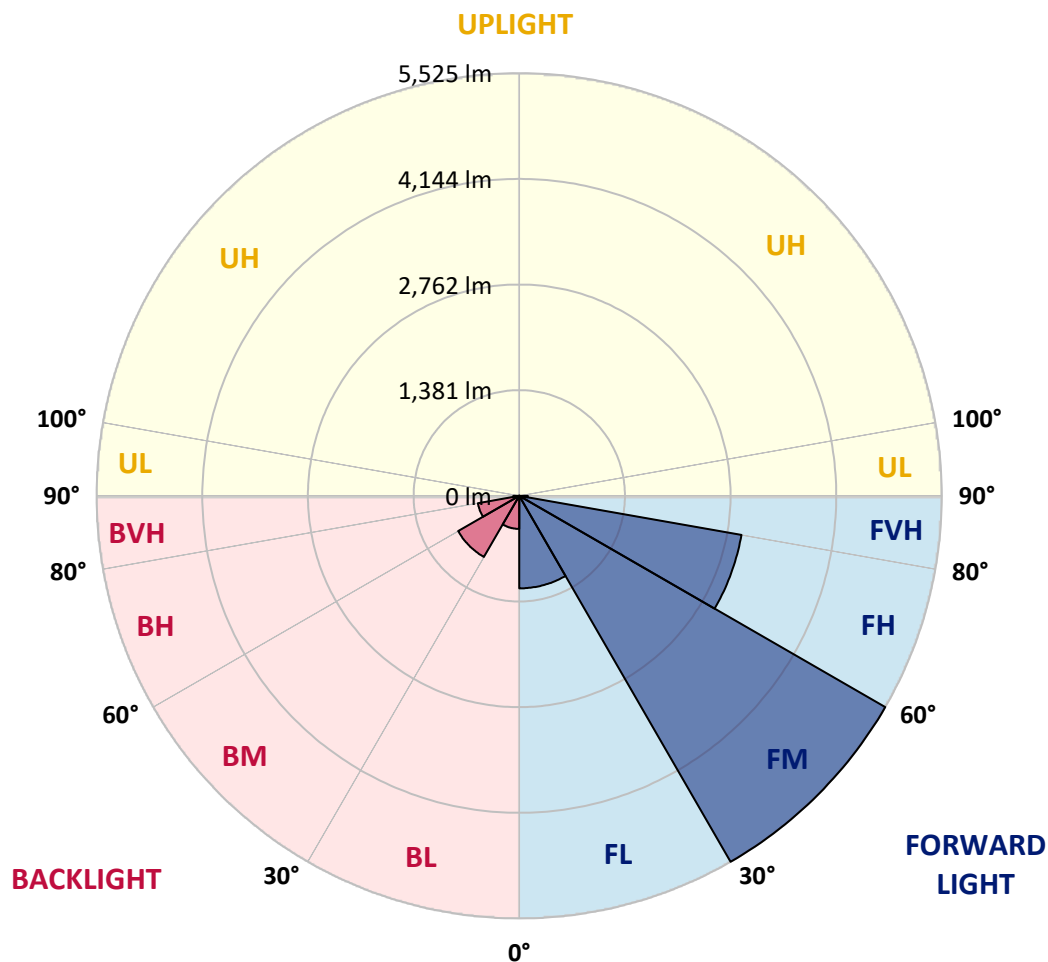
CATALOG NUMBER: GLEON-SA3A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1209.6	10.3			
FM	(30°-60°)	5524.7	46.9			
FH	(60°-80°)	2949.9	25.0			G2/5000
FVH	(80°-90°)	112.0	1.0			G2/225
BL	(0°-30°)	432.2	3.7	B1/500		
BM	(30°-60°)	922.9	7.8	B1/1000		
BH	(60°-80°)	549.1	4.7	B2/1000		G2/1000
BVH	(80°-90°)	77.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P317587

CATALOG NUMBER: GLEON-SA3A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1427.9	1406.3	1404.3	1372.7	1365.5	1305.1	1260.7	1214.3	1161.6	1151.2	1109.6
5°	1834.1	1832.1	1804.5	1752.9	1712.6	1609.4	1507.4	1399.5	1281.1	1261.9	1168.4
7.5°	2199.6	2196.4	2175.2	2119.6	2061.2	1934.5	1788.9	1623.4	1431.5	1403.1	1247.9
10°	2477.1	2475.9	2468.7	2427.9	2378.3	2256.8	2096.0	1870.1	1606.2	1567.4	1347.5
12.5°	2691.4	2693.8	2698.6	2684.2	2660.6	2557.0	2392.3	2131.6	1792.5	1754.1	1458.3
15°	2836.5	2843.7	2868.5	2888.9	2901.3	2837.7	2678.2	2399.1	2001.3	1955.3	1581.0
17.5°	2909.7	2917.7	2960.5	3022.1	3078.8	3072.4	2945.7	2654.2	2201.6	2157.2	1713.0
20°	2972.9	2978.9	3026.9	3100.8	3201.2	3245.6	3174.4	2899.7	2421.1	2368.3	1852.9
22.5°	3156.0	3163.6	3178.0	3220.0	3308.8	3390.3	3355.9	3132.0	2622.2	2573.0	1985.7
25°	3509.5	3518.7	3487.5	3451.9	3468.7	3525.5	3531.9	3343.9	2826.1	2770.6	2128.4
27.5°	3935.3	3948.5	3895.3	3803.8	3723.8	3701.8	3694.2	3517.5	3020.9	2956.5	2269.5
30°	4352.4	4375.2	4306.0	4187.2	4040.5	3937.3	3861.0	3687.4	3212.8	3151.2	2402.7
32.5°	4759.8	4750.6	4650.3	4534.3	4362.4	4233.2	4048.5	3869.8	3428.7	3357.9	2535.1
35°	5038.9	5042.1	4948.9	4811.4	4647.5	4548.3	4299.6	4066.5	3649.0	3583.9	2685.4
37.5°	5276.4	5261.6	5156.1	5027.7	4886.6	4844.2	4593.5	4283.2	3887.7	3816.6	2845.3
40°	5355.6	5338.4	5269.2	5176.9	5063.7	5060.1	4917.8	4528.7	4157.6	4087.3	3025.7
42.5°	5307.6	5285.6	5257.2	5232.0	5197.3	5213.2	5222.4	4816.6	4454.3	4375.6	3234.4
45°	5130.5	5097.3	5117.3	5172.1	5247.6	5338.0	5497.5	5135.3	4786.6	4720.6	3479.5
47.5°	4858.2	4828.2	4890.6	5007.7	5213.2	5442.0	5757.8	5487.1	5183.3	5117.7	3828.6
50°	4475.1	4483.9	4573.1	4786.2	5096.9	5489.9	6078.5	5953.0	5759.8	5698.7	4304.8
52.5°	3846.6	3848.2	4099.3	4449.1	4890.6	5465.2	6256.5	6548.3	6547.1	6473.2	4758.2
55°	3262.8	3298.4	3497.1	3962.1	4556.3	5366.0	6380.8	6837.8	7064.2	6977.4	5180.9
57.5°	2692.6	2713.4	2901.7	3368.7	4079.3	5101.7	6508.4	7185.3	7659.9	7605.2	5706.3
60°	2044.0	2076.0	2270.7	2702.2	3469.1	4632.7	6520.4	7548.0	8372.1	8316.9	6292.8
62.5°	1326.7	1381.9	1564.2	1968.5	2731.0	3958.1	6242.1	7785.1	9047.0	9027.4	6813.4
65°	762.5	804.1	930.9	1242.7	1884.1	3111.2	5580.3	7693.9	9462.5	9451.3	7008.2
66°	623.0	649.0	746.1	971.2	1554.6	2732.2	5195.7	7501.6	9503.6	9504.0	6985.8
67.5°	498.2	509.8	553.4	695.3	1147.2	2165.6	4508.3	7077.3	9452.5	9466.5	6841.4
70°	412.2	418.2	431.8	466.2	626.2	1305.9	3200.0	5975.0	8938.7	8949.4	6278.0
72.5°	369.9	373.5	378.7	383.5	441.8	729.7	1954.5	4779.8	7837.1	7851.1	5419.6
75°	335.1	337.1	336.3	336.7	370.7	465.0	1010.0	3568.7	6336.8	6308.8	4151.6
77.5°	294.3	296.3	292.3	293.1	327.9	357.5	502.6	2498.3	4276.4	4078.9	2339.1
80°	248.7	250.3	248.7	251.5	285.5	269.9	292.3	1405.5	1890.9	1788.5	831.7
82.5°	187.9	194.7	199.5	210.7	235.1	191.9	195.5	547.4	575.8	548.2	255.1
85°	82.4	100.4	150.3	161.1	176.7	115.2	128.4	223.1	234.3	227.1	92.8
87.5°	21.6	23.6	74.4	93.6	98.0	52.0	66.8	101.6	107.2	101.6	30.8
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: P317587

CATALOG NUMBER: GLEON-SA3A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1087.6	1068.0	1032.8	1001.6	978.0	962.0	946.0	938.0	933.3	928.5	929.3
5°	1122.4	1082.8	1022.4	979.6	955.6	940.4	932.5	929.3	927.3	922.5	922.5
7.5°	1174.8	1118.8	1035.6	991.6	972.8	961.2	956.4	954.8	952.4	946.8	947.6
10°	1240.7	1162.4	1063.2	1020.4	1003.2	990.4	983.6	981.2	976.8	970.4	971.2
12.5°	1318.3	1216.3	1099.6	1054.8	1034.0	1016.8	1005.6	998.8	991.2	982.8	983.2
15°	1403.1	1275.1	1138.8	1085.6	1057.2	1033.2	1015.2	1003.6	991.6	981.2	980.8
17.5°	1489.0	1331.9	1168.8	1102.4	1064.0	1032.4	1008.0	990.0	975.2	962.4	961.2
20°	1581.8	1383.1	1185.6	1100.8	1051.2	1013.6	981.2	958.8	942.4	929.7	927.7
22.5°	1676.2	1431.1	1188.4	1084.4	1022.8	976.8	942.8	918.1	901.3	888.1	883.3
25°	1762.5	1468.2	1176.8	1052.8	983.2	933.7	900.5	875.3	861.7	846.1	841.3
27.5°	1841.3	1494.2	1153.6	1012.4	938.8	890.1	858.9	837.3	822.5	810.5	806.5
30°	1912.1	1508.2	1115.6	964.4	893.3	848.9	822.5	807.7	794.9	779.7	776.9
32.5°	1979.3	1508.2	1066.8	912.1	848.1	812.5	796.9	787.7	773.3	758.5	754.5
35°	2046.4	1499.0	1009.2	857.3	806.5	786.5	785.7	774.9	752.9	732.9	727.7
37.5°	2117.2	1480.2	944.4	806.1	772.5	774.9	781.7	757.7	726.5	698.1	690.5
40°	2197.2	1454.3	877.3	761.7	744.1	769.7	770.9	732.9	672.1	646.2	639.4
42.5°	2291.1	1428.3	814.9	722.5	721.7	754.1	750.5	679.3	643.0	629.8	626.2
45°	2414.7	1413.5	755.7	685.3	704.1	728.9	715.7	649.8	634.6	627.0	623.8
47.5°	2609.4	1421.1	701.3	655.8	686.5	703.7	651.0	637.8	627.0	617.8	614.6
50°	2853.3	1416.7	657.4	635.4	666.6	677.3	621.8	622.2	616.6	606.2	601.4
52.5°	3036.9	1382.3	629.0	623.8	649.0	630.6	603.4	607.0	604.2	589.0	583.8
55°	3214.0	1352.7	614.6	619.4	636.2	572.2	581.8	590.6	587.8	573.0	570.6
57.5°	3434.3	1347.1	605.8	620.6	625.4	543.0	561.0	572.6	570.6	564.2	563.0
60°	3704.2	1348.7	597.8	622.6	613.4	521.4	541.4	556.2	557.4	556.2	555.4
62.5°	3852.6	1305.1	577.8	617.0	592.2	502.6	521.0	542.6	543.0	545.4	545.0
65°	3726.6	1174.8	540.6	597.4	556.6	487.0	503.4	527.0	521.0	531.8	531.8
66°	3604.2	1099.6	522.2	584.6	541.4	481.0	497.8	519.0	511.4	526.2	526.2
67.5°	3354.3	972.8	489.0	557.4	519.8	472.6	491.4	505.8	495.4	517.4	515.8
70°	2897.7	752.5	422.2	495.8	484.2	460.2	482.6	479.4	464.2	497.8	491.4
72.5°	2443.1	571.8	339.1	415.0	430.2	444.6	470.2	445.8	426.6	450.2	436.2
75°	1895.7	429.8	267.9	322.7	363.5	420.2	455.4	407.0	379.5	377.1	369.5
77.5°	1024.8	295.1	212.3	246.3	288.7	389.9	445.4	365.5	323.9	314.3	308.3
80°	405.8	191.9	154.3	186.7	201.9	345.9	421.4	317.1	267.1	257.5	248.3
82.5°	167.5	113.6	99.6	125.2	131.6	295.9	378.3	259.9	206.3	285.5	303.1
85°	72.0	62.4	59.2	64.8	74.4	207.5	301.1	198.3	222.7	198.7	157.9
87.5°	21.6	26.4	25.2	24.8	27.2	49.6	160.3	110.4	163.5	62.0	46.4
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: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

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: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_g = 7.1$



Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	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 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	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)