

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: P317922

Luminaire Tested: **GLEON-SA8B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37211 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

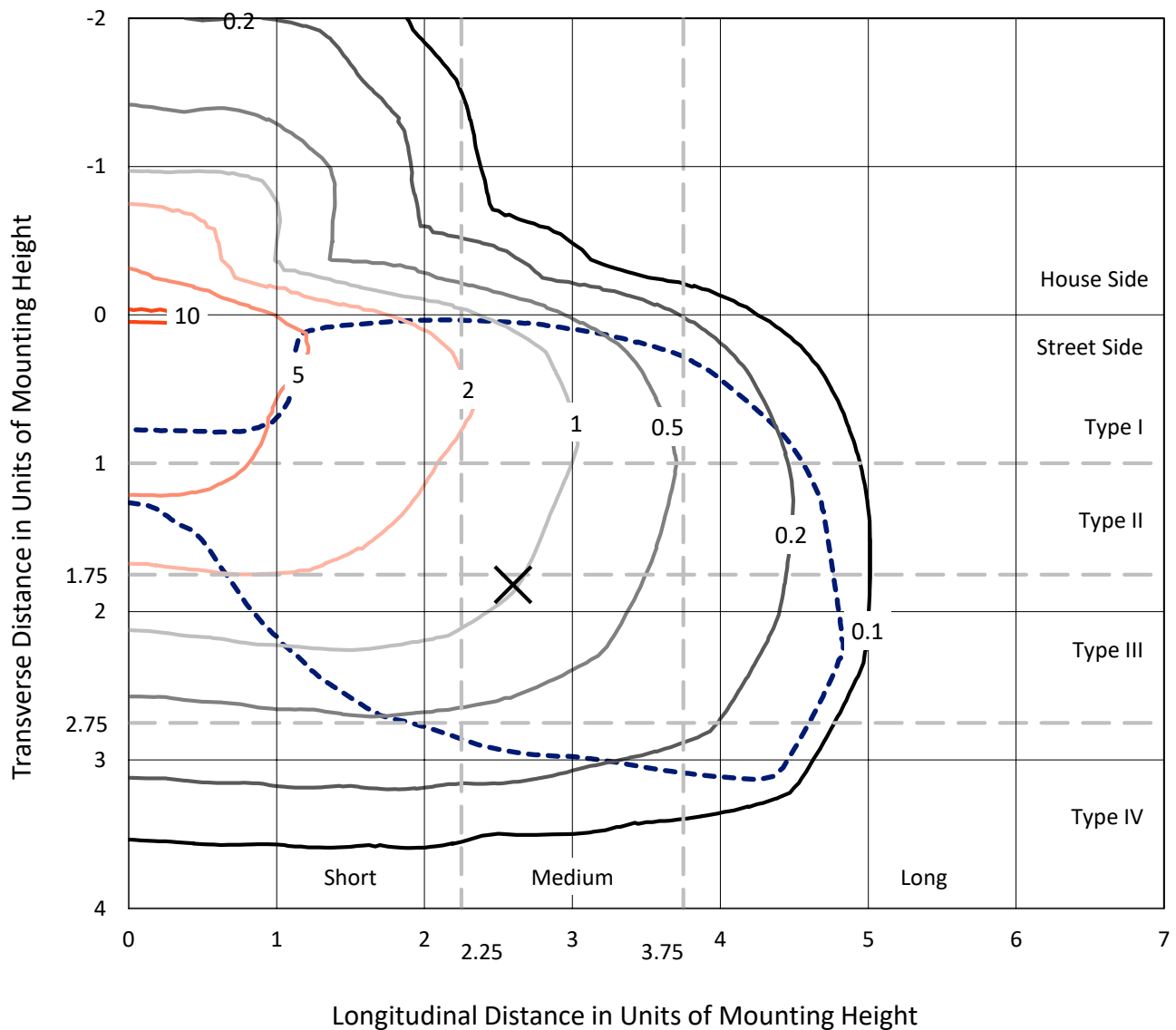
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317922
 CATALOG NUMBER: GLEON-SA8B-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

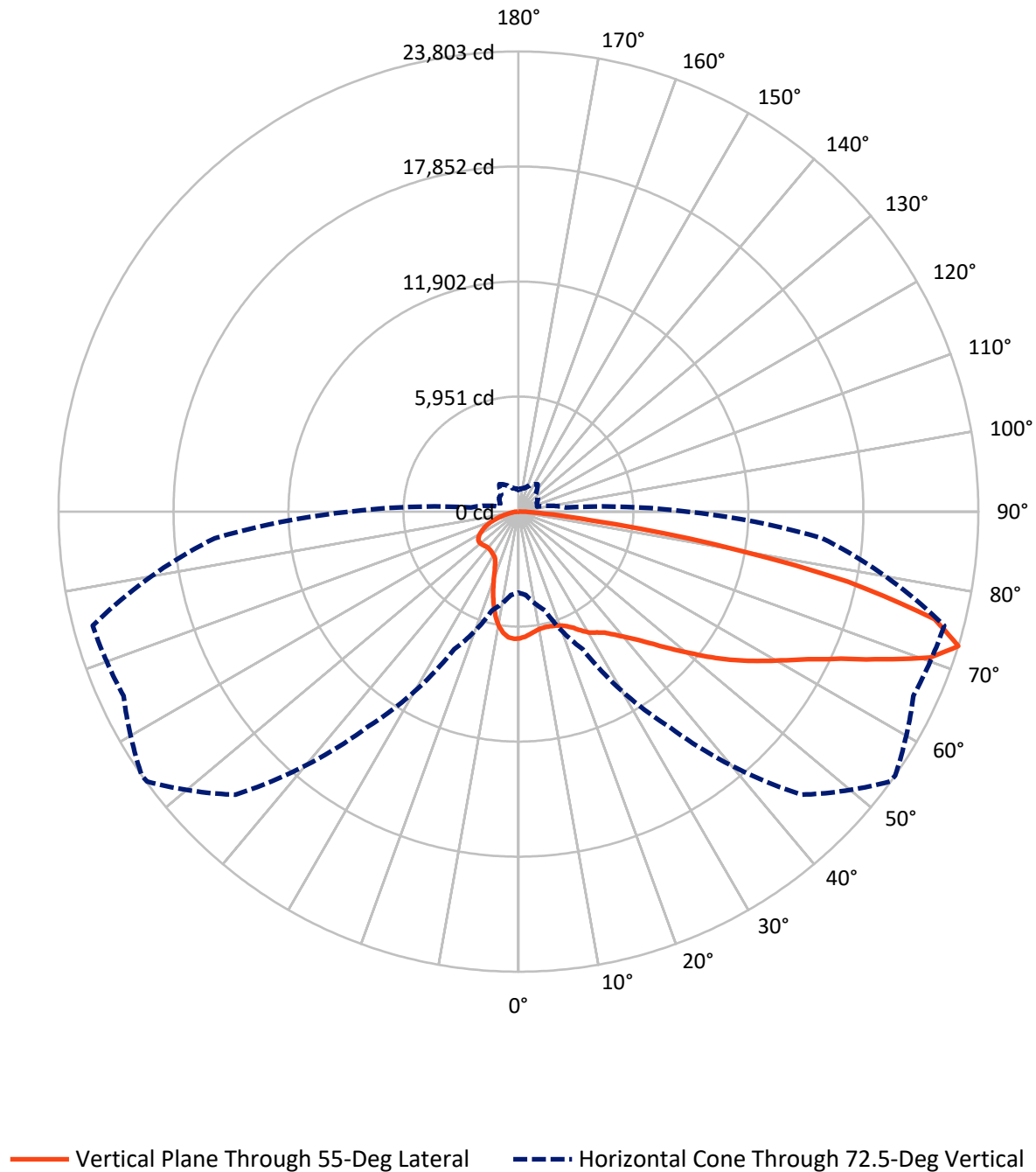
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317922
CATALOG NUMBER: GLEON-SA8B-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317922

CATALOG NUMBER: GLEON-SA8B-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6916.3	0.0	6916.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30294.7	0.0	30294.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	37211.0	0.0	37211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.9	1.6
10°-20°	1581.2	4.2
20°-30°	2607.0	7.0
30°-40°	3856.3	10.4
40°-50°	5382.6	14.5
50°-60°	7008.3	18.8
60°-70°	8613.1	23.1
70°-80°	6751.6	18.1
80°-90°	817.0	2.2
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°	37211.0	100.0
0°-180°	37211.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317922

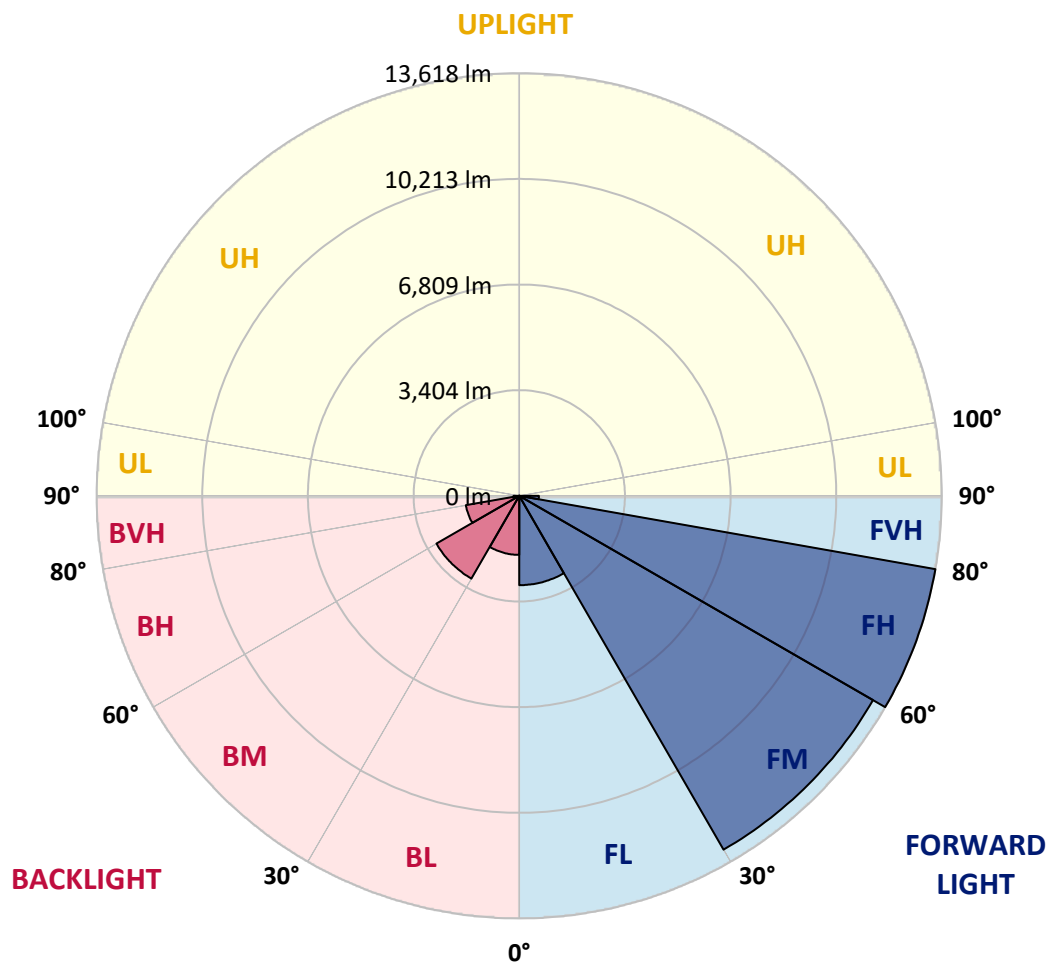
CATALOG NUMBER: GLEON-SA8B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2879.0	7.7			
FM	(30°-60°)	13166.0	35.4			
FH	(60°-80°)	13618.0	36.6			G5
FVH	(80°-90°)	631.7	1.7			G4/750
BL	(0°-30°)	1903.0	5.1	B3/2500		
BM	(30°-60°)	3081.3	8.3	B3/5000		
BH	(60°-80°)	1746.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	185.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P317922

CATALOG NUMBER: GLEON-SA8B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2
2.5°	6349.6	6334.5	6353.3	6379.7	6408.6	6447.6	6470.2	6480.3	6519.2	6534.3	6567.0
5°	6055.5	6047.9	6079.3	6124.6	6188.7	6279.2	6352.1	6365.9	6469.0	6541.9	6608.5
7.5°	5841.8	5841.8	5878.2	5932.3	6003.9	6125.8	6228.9	6247.8	6422.5	6579.6	6702.7
10°	5672.1	5678.4	5721.1	5785.2	5869.4	5998.9	6135.9	6157.3	6409.9	6667.5	6863.6
12.5°	5559.0	5574.1	5613.0	5670.9	5775.2	5932.3	6105.7	6134.6	6436.3	6793.2	7057.2
15°	5630.6	5655.8	5659.6	5683.4	5741.2	5912.2	6123.3	6153.5	6492.8	6921.4	7277.1
17.5°	5944.9	5953.7	5914.7	5864.4	5836.8	5946.1	6176.1	6207.5	6560.7	7048.4	7488.3
20°	6422.5	6417.4	6333.2	6197.5	6056.7	6074.3	6262.8	6295.5	6652.5	7160.2	7699.4
22.5°	7025.7	7008.1	6878.7	6628.6	6388.5	6288.0	6414.9	6442.6	6790.7	7319.8	7925.6
25°	7757.2	7718.3	7547.3	7211.7	6858.6	6599.7	6643.7	6670.1	6991.8	7498.3	8133.0
27.5°	8528.9	8490.0	8272.5	7866.6	7396.5	6993.1	6959.1	6981.7	7220.5	7630.3	8286.3
30°	9335.8	9294.3	9095.8	8640.8	7967.1	7400.3	7253.2	7262.0	7381.4	7701.9	8412.0
32.5°	10146.5	10107.5	9885.0	9357.2	8586.7	7837.7	7465.6	7454.3	7478.2	7776.1	8554.1
35°	10968.4	10983.5	10723.4	10138.9	9273.0	8324.1	7717.0	7693.1	7640.3	7928.1	8755.1
37.5°	11848.2	11838.2	11501.3	10890.5	9990.6	8851.9	8077.7	8073.9	7891.7	8216.0	9070.6
40°	12436.4	12442.7	12237.9	11659.7	10715.8	9436.4	8540.2	8531.4	8292.6	8647.1	9484.1
42.5°	12666.4	12707.9	12760.7	12393.7	11475.0	10113.8	9092.0	9079.4	8851.9	9265.4	9970.5
45°	12682.8	12765.7	13092.5	13046.0	12244.1	10889.3	9797.1	9761.9	9598.5	10087.4	10551.2
47.5°	12542.0	12627.5	13170.4	13434.4	12931.6	11707.5	10621.6	10593.9	10453.1	11115.5	11179.6
50°	12234.1	12315.8	13009.6	13624.1	13497.2	12494.2	11571.7	11498.8	11423.4	12303.2	11898.5
52.5°	11657.2	11814.3	12794.6	13669.4	13835.3	13193.1	12570.9	12523.2	12564.6	13556.3	12618.7
55°	10291.0	10467.0	12240.4	13631.7	14085.4	13780.0	13570.1	13567.6	13782.5	14870.9	13391.6
57.5°	9525.6	9650.0	11111.7	13567.6	14382.0	14363.2	14559.2	14583.1	15001.6	16302.5	14201.0
60°	9093.2	9224.0	10539.9	13330.0	14842.0	15117.3	15568.5	15616.2	16240.9	17887.4	15175.1
62.5°	8699.8	8843.1	10185.4	12846.2	15383.7	16195.6	16777.6	16820.3	17553.0	19516.2	16116.5
65°	8027.4	8189.6	9666.4	12528.2	15876.4	17602.0	18314.7	18343.6	19060.0	21223.0	16836.6
67.5°	7077.3	7225.6	8687.3	11825.6	16240.9	19310.1	20358.3	20374.6	20554.4	22428.3	17204.9
70°	5967.5	6024.0	7292.2	10375.2	15809.8	20907.5	22598.0	22601.8	21916.8	23200.0	17144.6
72.5°	4192.8	4326.0	5293.8	7854.0	13586.4	20712.7	23760.6	23803.3	22550.2	22810.4	15774.6
75°	2571.5	2712.3	3320.6	4759.7	8619.4	16289.9	21953.2	22249.8	21362.5	20338.2	12886.4
77.5°	1719.4	1772.1	2166.8	2775.1	3905.0	9372.3	16878.1	17436.1	17746.6	14832.0	8241.1
80°	959.0	1059.5	1436.6	1724.4	1737.0	3724.0	10120.1	10250.8	9873.7	5905.9	2542.6
82.5°	507.8	563.1	959.0	1013.0	947.7	1246.8	3771.8	3775.5	3154.7	1583.6	755.4
85°	393.4	439.9	657.3	618.4	483.9	553.0	1244.3	1312.1	1073.3	648.5	246.3
87.5°	196.1	243.8	446.2	392.1	189.8	158.4	444.9	475.1	423.6	253.9	89.2
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: P317922

CATALOG NUMBER: GLEON-SA8B-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2
2.5°	6579.6	6590.9	6604.7	6589.6	6584.6	6564.5	6530.5	6523.0	6505.4	6506.7	6516.7
5°	6637.4	6656.2	6648.7	6590.9	6521.7	6425.0	6324.4	6239.0	6182.4	6178.6	6174.9
7.5°	6748.0	6760.5	6701.5	6536.8	6343.3	6119.6	5908.4	5723.7	5611.8	5584.1	5577.9
10°	6921.4	6918.9	6756.8	6425.0	6039.1	5639.4	5300.1	5043.7	4894.1	4850.1	4838.8
12.5°	7115.0	7086.1	6775.6	6221.4	5609.3	5055.0	4625.2	4339.9	4184.0	4133.7	4121.2
15°	7314.8	7243.2	6729.1	5917.2	5081.4	4425.3	3974.1	3710.2	3626.0	3598.3	3593.3
17.5°	7500.8	7362.6	6595.9	5505.0	4479.4	3798.2	3446.3	3340.7	3360.8	3397.2	3398.5
20°	7683.1	7443.0	6382.2	4984.6	3844.7	3281.6	3162.2	3240.1	3335.7	3409.8	3419.9
22.5°	7862.8	7499.6	6107.0	4383.9	3276.6	2991.3	3075.5	3217.5	3326.9	3407.3	3421.1
25°	8013.6	7513.4	5727.4	3742.9	2881.9	2881.9	3034.0	3168.5	3276.6	3355.8	3369.6
27.5°	8068.9	7420.4	5192.0	3149.6	2683.4	2831.7	2976.2	3088.1	3179.8	3264.0	3279.1
30°	8090.3	7248.2	4573.6	2673.3	2601.7	2777.6	2898.3	2993.8	3080.5	3159.7	3173.5
32.5°	8094.1	7040.8	3917.6	2403.1	2545.1	2721.1	2801.5	2885.7	2978.7	3010.1	3015.2
35°	8117.9	6795.7	3226.3	2264.8	2492.3	2668.3	2732.4	2792.7	2641.9	2653.2	2663.2
37.5°	8187.1	6553.2	2648.2	2186.9	2458.4	2640.6	2717.3	2498.6	2380.5	2352.8	2349.0
40°	8316.5	6294.3	2219.6	2124.1	2445.8	2654.4	2620.5	2332.7	2129.1	1977.0	1954.4
42.5°	8496.2	6015.2	1945.6	2082.6	2454.6	2721.1	2486.0	2173.1	1835.0	1737.0	1724.4
45°	8698.6	5722.4	1797.3	2053.7	2484.8	2772.6	2458.4	1960.7	1698.0	1623.8	1617.6
47.5°	8894.7	5364.2	1720.6	2041.1	2526.2	2731.1	2341.5	1895.3	1632.6	1593.7	1597.4
50°	9119.6	5041.2	1674.1	2027.3	2562.7	2704.7	2209.5	1861.4	1607.5	1655.3	1705.5
52.5°	9309.4	4706.9	1632.6	1999.6	2576.5	2658.2	2175.6	1867.7	1607.5	1699.2	1747.0
55°	9534.4	4454.2	1584.9	1941.8	2550.1	2526.2	2151.7	1905.4	1626.4	1568.5	1573.6
57.5°	9824.7	4371.3	1532.1	1851.3	2462.2	2334.0	2140.4	1941.8	1615.0	1578.6	1591.2
60°	10226.9	4459.3	1510.7	1733.2	2325.2	2183.1	2141.7	1923.0	1535.9	1473.0	1474.3
62.5°	10610.2	4557.3	1509.5	1659.0	2156.7	2048.6	2112.7	1861.4	1495.6	1459.2	1473.0
65°	10735.9	4458.0	1449.1	1576.1	1967.0	1887.8	2060.0	1796.0	1465.5	1410.2	1407.7
67.5°	10567.5	4150.1	1327.2	1441.6	1749.5	1700.5	1990.8	1718.1	1417.7	1372.5	1364.9
70°	10067.3	3462.6	1176.4	1264.4	1501.9	1489.4	1881.5	1627.6	1353.6	1314.7	1282.0
72.5°	8721.2	2467.2	991.6	1052.0	1222.9	1263.1	1730.7	1509.5	1263.1	1178.9	1128.6
75°	7162.7	1826.2	814.4	827.0	928.8	1038.2	1523.3	1371.2	1156.3	1013.0	974.1
77.5°	4386.4	1117.3	648.5	653.6	666.1	828.3	1254.3	1216.6	1020.6	844.6	816.9
80°	1420.2	609.6	468.8	492.7	455.0	607.1	970.3	1035.6	876.0	706.3	676.2
82.5°	540.4	355.7	316.7	333.1	315.5	407.2	707.6	829.5	717.7	580.7	472.6
85°	261.4	201.1	187.3	209.9	194.8	208.6	452.5	610.8	544.2	378.3	351.9
87.5°	93.0	89.2	71.6	96.8	83.0	74.2	138.3	307.9	359.5	260.2	232.5
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 $\text{W}^\wedge/\text{nm}$	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

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)