

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: P322718

Luminaire Tested: **GLEON-SA4B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13008 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

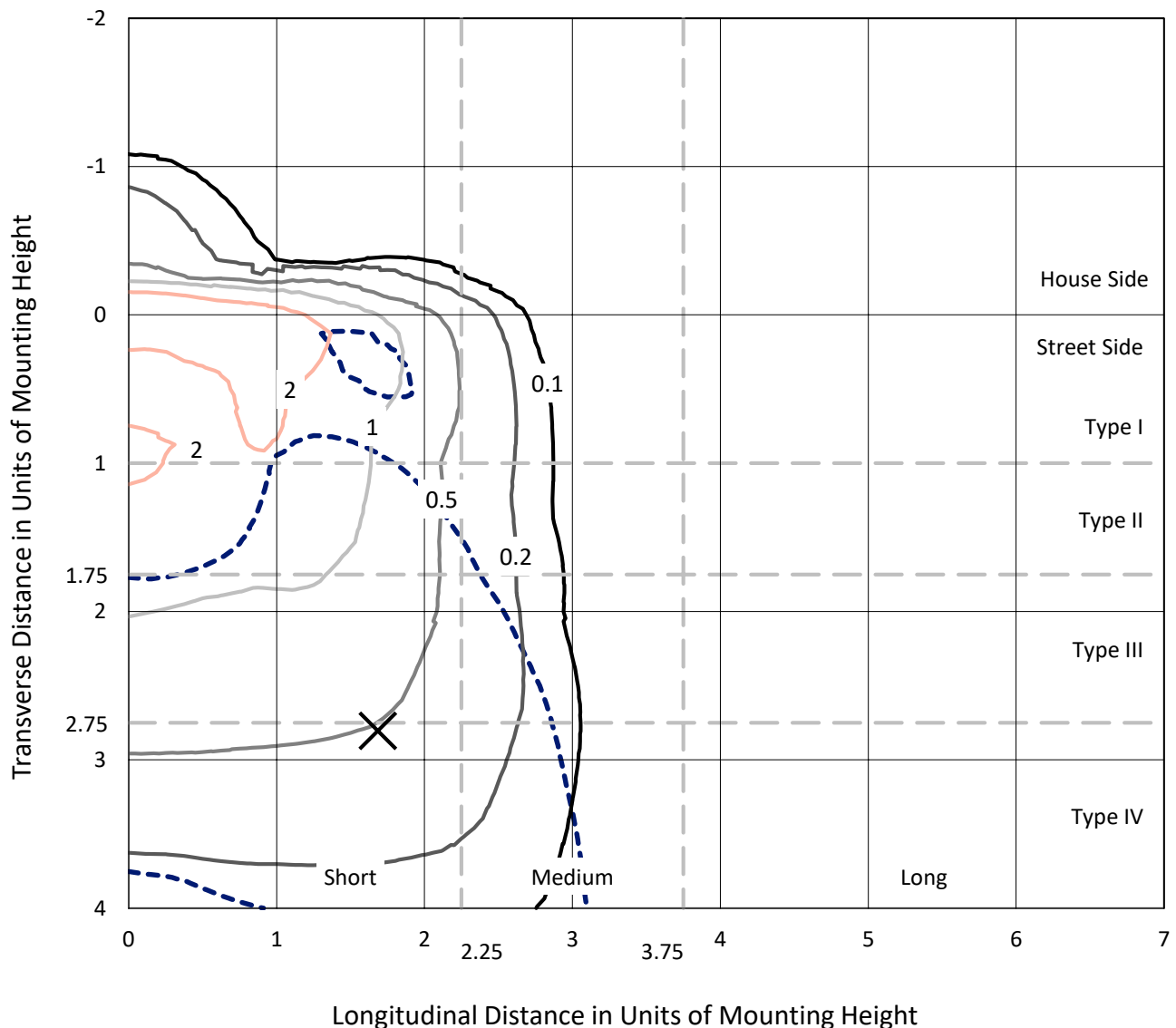
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322718
 CATALOG NUMBER: GLEON-SA4B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

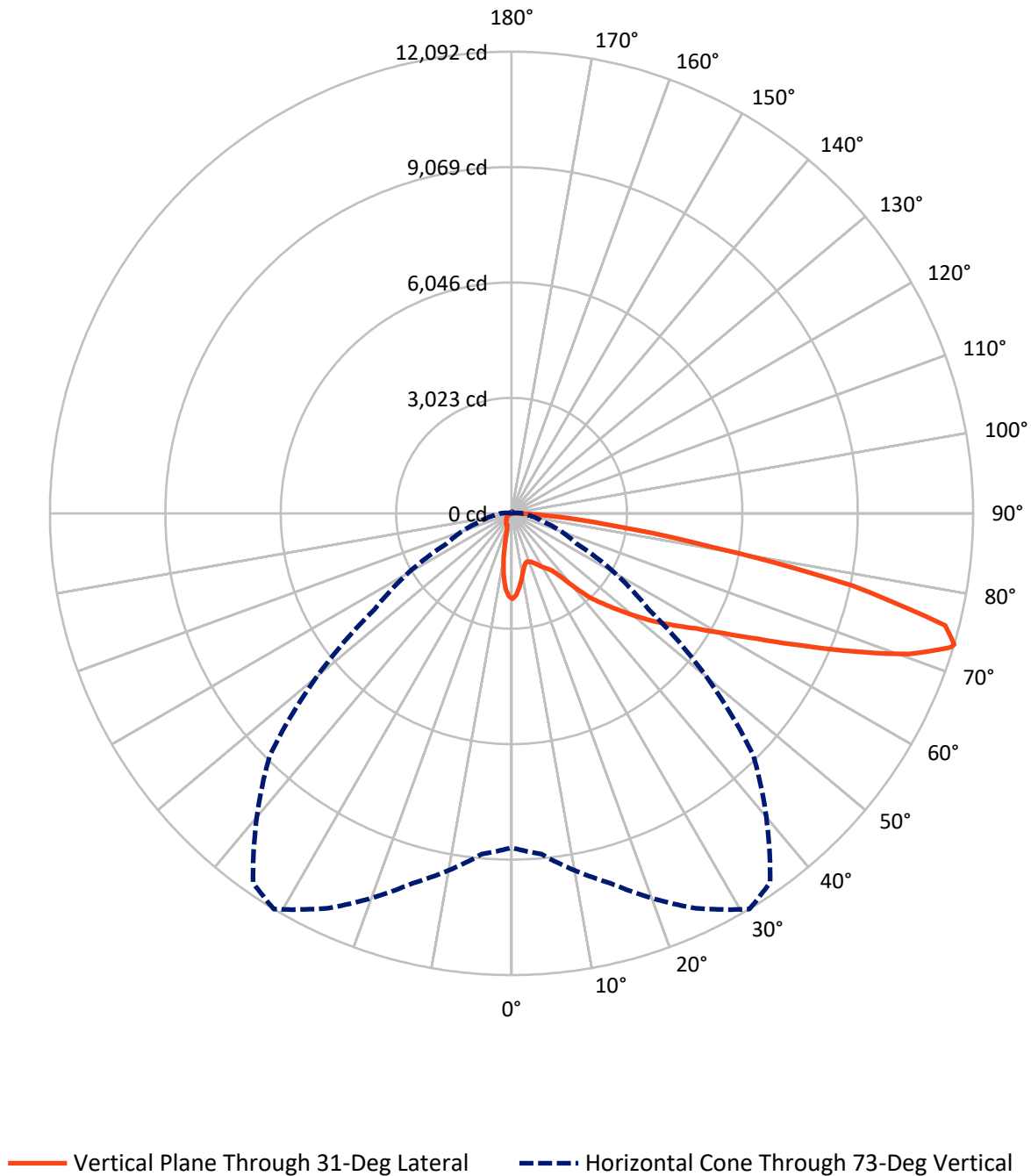
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P322718
CATALOG NUMBER: GLEON-SA4B-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322718
 CATALOG NUMBER: GLEON-SA4B-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.7	0.0	1185.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11822.3	0.0	11822.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	13008.0	0.0	13008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	1.4
10°-20°	402.9	3.1
20°-30°	603.7	4.6
30°-40°	960.5	7.4
40°-50°	1715.1	13.2
50°-60°	2661.4	20.5
60°-70°	3537.9	27.2
70°-80°	2661.3	20.5
80°-90°	279.6	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°	13008.0	100.0
0°-180°	13008.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322718

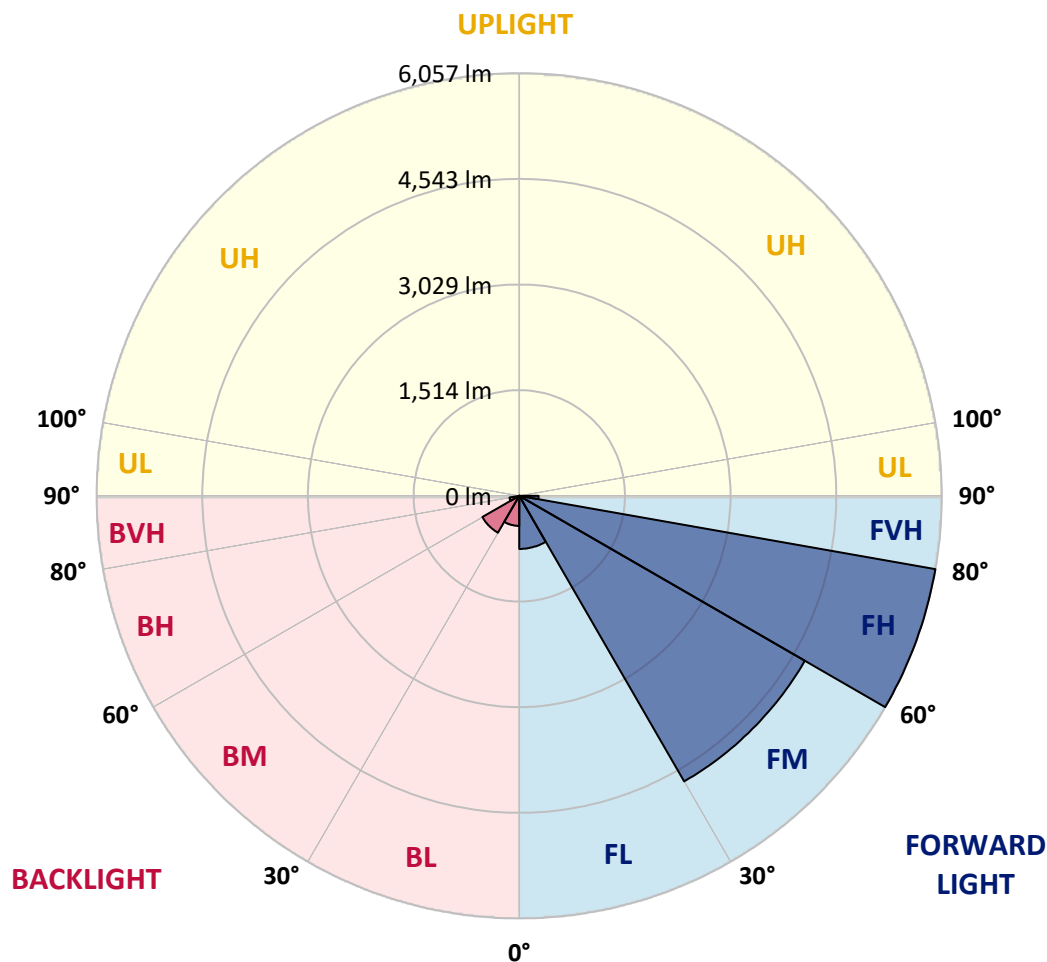
CATALOG NUMBER: GLEON-SA4B-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.0	5.9			
FM	(30°-60°)	4726.7	36.3			
FH	(60°-80°)	6057.3	46.6			G3/7500
FVH	(80°-90°)	277.3	2.1			G3/500
BL	(0°-30°)	431.2	3.3	B1/500		
BM	(30°-60°)	610.3	4.7	B1/1000		
BH	(60°-80°)	141.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P322718

CATALOG NUMBER: GLEON-SA4B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1
2.5°	2120.9	2129.8	2139.4	2141.3	2157.2	2157.8	2180.8	2198.0	2215.1	2231.7	2237.4
5°	1903.2	1917.9	1935.1	1952.2	1986.0	1999.4	2055.4	2112.7	2167.4	2219.6	2245.1
7.5°	1670.9	1687.5	1711.6	1754.3	1791.8	1817.9	1906.4	2008.3	2110.1	2206.2	2261.6
10°	1458.9	1474.2	1499.7	1544.9	1602.8	1638.4	1757.5	1898.8	2048.4	2194.1	2286.4
12.5°	1324.0	1332.3	1346.3	1394.6	1446.8	1486.9	1627.0	1802.0	1997.4	2193.5	2326.5
15°	1299.2	1301.7	1290.3	1311.9	1352.6	1391.5	1533.4	1723.7	1958.6	2203.7	2378.7
17.5°	1338.6	1337.4	1299.2	1296.6	1329.1	1360.9	1487.6	1669.6	1931.2	2227.2	2446.2
20°	1398.5	1394.0	1327.8	1315.7	1350.1	1380.0	1484.4	1649.3	1921.1	2266.7	2528.3
22.5°	1478.0	1470.4	1366.6	1353.9	1390.8	1422.0	1523.9	1669.0	1930.0	2319.5	2623.8
25°	1576.7	1565.2	1433.5	1419.5	1457.0	1488.2	1594.5	1725.6	1956.7	2383.8	2744.7
27.5°	1688.1	1671.5	1540.4	1504.1	1546.8	1579.2	1688.7	1812.2	1998.7	2451.9	2893.0
30°	1793.1	1771.5	1653.1	1593.2	1645.4	1681.7	1790.6	1915.3	2066.2	2557.0	3096.1
32.5°	1898.8	1874.6	1753.7	1682.4	1729.5	1768.9	1895.6	2057.3	2192.9	2717.4	3366.0
35°	2141.9	2116.5	1968.2	1850.4	1849.8	1872.0	2042.6	2251.4	2360.3	2940.8	3688.1
37.5°	2551.2	2536.6	2395.3	2171.9	2112.0	2087.2	2243.1	2483.1	2600.9	3248.2	4051.5
40°	2999.3	2986.6	2828.1	2625.7	2534.7	2473.6	2530.9	2805.8	2940.8	3623.8	4422.6
42.5°	3505.4	3444.9	3162.3	3101.8	3020.4	2973.9	2922.3	3203.7	3358.4	4032.4	4790.6
45°	3965.0	3863.1	3496.5	3404.8	3386.4	3397.8	3426.5	3738.4	3828.1	4518.1	5157.2
47.5°	4238.7	4158.5	3877.1	3789.3	3784.2	3859.9	4076.4	4342.4	4296.0	4941.4	5479.9
50°	4499.0	4426.5	4192.8	4214.5	4238.0	4341.2	4814.1	4963.7	4723.1	5325.2	5775.9
52.5°	4709.7	4599.0	4476.7	4598.3	4714.2	4880.3	5575.4	5521.3	5026.1	5630.8	6029.2
55°	4831.3	4781.0	4840.2	4962.4	5180.1	5450.0	6294.0	5985.3	5247.6	5909.6	6197.9
57.5°	5276.9	5178.2	5296.0	5401.6	5685.5	6063.0	6909.6	6331.0	5407.4	6082.1	6236.8
60°	5816.0	5736.4	5805.8	5981.5	6364.7	6808.4	7485.0	6613.0	5490.7	6192.8	6136.2
62.5°	6674.1	6569.0	6525.7	6722.4	7230.4	7714.8	7921.7	6808.4	5472.3	6143.8	5791.2
65°	7823.6	7714.8	7521.3	7699.5	8345.6	8687.4	8409.9	6849.7	5345.0	5747.3	4919.1
67.5°	9001.2	8922.3	8756.8	9057.2	9640.3	9750.4	8926.1	6749.2	4935.0	4660.1	3475.5
70°	9779.1	9745.3	9852.9	10517.4	11037.5	11005.7	9399.7	6208.8	3846.6	2865.7	1719.3
72.5°	9218.3	9380.0	10174.4	11379.3	12014.6	11754.9	9156.5	4767.6	2198.6	1102.5	497.1
73°	8753.6	8960.5	10029.9	11411.8	12091.6	11807.1	8952.2	4376.2	1874.0	870.1	376.8
75°	6089.7	6343.7	8303.6	10628.2	11731.3	11249.5	7462.1	2678.5	868.2	385.7	152.1
77.5°	2956.7	3144.5	4572.2	7679.1	9123.4	8789.3	4645.4	998.1	392.1	241.2	70.0
80°	1103.7	1227.2	1984.7	3908.3	5272.4	5410.5	2043.3	377.5	261.0	194.1	35.6
82.5°	289.0	322.1	732.0	1742.8	2702.1	2828.1	644.2	190.3	191.0	159.8	21.6
85°	92.3	105.7	228.5	782.3	1273.1	1117.8	168.0	92.3	138.8	119.0	12.1
87.5°	11.5	14.6	72.6	184.0	280.7	156.0	26.1	27.4	59.2	66.2	7.0
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: P322718

CATALOG NUMBER: GLEON-SA4B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1
2.5°	2243.1	2240.0	2240.6	2224.0	2213.2	2191.6	2169.3	2159.1	2148.3	2143.8	2148.3
5°	2254.6	2248.9	2232.3	2181.4	2127.3	2057.3	1991.7	1942.1	1879.7	1862.5	1880.3
7.5°	2272.4	2261.0	2212.6	2108.8	1988.5	1854.9	1704.6	1595.2	1505.4	1447.5	1468.5
10°	2298.5	2276.9	2179.5	2003.2	1788.0	1551.2	1338.0	1171.9	1054.1	1005.7	1003.8
12.5°	2342.4	2301.7	2138.8	1865.7	1543.0	1227.2	947.8	767.7	672.2	610.4	609.2
15°	2390.8	2331.0	2087.2	1700.8	1257.8	879.1	610.4	473.6	411.8	392.1	389.6
17.5°	2450.0	2364.7	2020.4	1497.8	959.3	582.4	398.5	359.0	356.5	354.5	354.5
20°	2524.5	2404.8	1934.4	1265.4	680.5	388.9	338.6	341.2	342.5	339.9	340.5
22.5°	2611.1	2445.6	1831.9	1015.9	460.2	325.3	324.0	327.2	328.5	327.2	327.8
25°	2711.6	2492.7	1707.2	754.3	332.3	308.7	311.9	316.4	319.5	319.5	319.5
27.5°	2836.4	2550.0	1557.0	526.4	287.1	291.5	300.4	308.7	313.2	314.4	314.4
30°	2998.7	2621.2	1376.8	360.9	261.0	268.6	285.2	301.1	309.4	310.6	311.3
32.5°	3203.7	2701.4	1168.0	266.7	238.7	244.4	262.3	289.0	304.9	307.4	307.4
35°	3438.6	2794.4	943.3	232.3	222.8	224.7	238.7	269.3	297.3	304.3	304.9
37.5°	3695.7	2886.0	717.4	217.1	209.4	209.4	219.6	245.7	278.8	300.4	303.0
40°	3935.7	2941.4	502.9	205.0	197.3	197.3	206.2	225.3	256.5	289.0	296.0
42.5°	4157.2	2960.5	350.1	193.5	185.9	187.8	195.4	210.7	234.2	266.7	273.1
45°	4385.1	2957.3	255.3	180.1	174.4	180.1	185.9	197.3	214.5	233.0	234.2
47.5°	4556.9	2930.6	202.4	167.4	163.6	171.2	176.3	184.0	193.5	192.2	192.2
50°	4718.0	2865.7	163.0	150.2	152.8	161.7	164.2	166.8	167.4	155.3	154.0
52.5°	4840.2	2764.5	130.5	131.8	141.9	150.9	148.3	144.5	138.1	123.5	120.9
55°	4880.9	2569.7	102.5	108.8	126.0	137.5	127.9	119.7	107.6	95.5	92.9
57.5°	4807.1	2318.3	83.4	84.7	106.3	115.8	105.0	95.5	82.1	71.9	70.0
60°	4650.5	2038.8	68.7	63.7	82.1	90.4	83.4	73.8	61.7	54.1	53.5
62.5°	4339.9	1740.9	56.7	49.6	62.4	69.4	64.9	57.9	47.7	42.6	42.0
65°	3686.8	1392.7	45.8	40.1	48.4	54.1	50.3	45.2	37.6	33.7	33.1
67.5°	2573.5	941.4	37.6	33.1	38.2	42.6	39.5	36.9	29.9	29.3	29.9
70°	1241.2	453.8	31.2	26.7	29.9	33.1	31.8	29.9	28.6	33.1	38.2
72.5°	355.8	152.1	24.8	22.3	24.2	26.1	27.4	26.7	31.2	40.1	46.5
73°	273.7	122.9	23.6	21.0	22.9	25.5	26.7	26.1	31.8	40.7	46.5
75°	117.1	59.2	17.8	17.2	19.1	22.3	23.6	23.6	31.8	41.4	44.6
77.5°	52.8	31.8	11.5	13.4	16.5	17.8	19.7	19.7	25.5	31.8	31.8
80°	29.9	17.2	8.9	10.2	12.1	12.1	12.1	10.8	11.5	12.7	14.0
82.5°	19.1	11.5	7.0	8.3	7.6	6.4	5.1	5.1	4.5	5.1	6.4
85°	10.8	6.4	6.4	5.1	3.2	2.5	3.2	2.5	0.6	0.0	0.6
87.5°	6.4	3.8	1.9	0.0	0.0	0.0	0.0	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: SP1-2408-195-9

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
 R_f: 81.5
 R_g: 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

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



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)