

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: P323347

Luminaire Tested: **GLEON-SA3A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9365 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

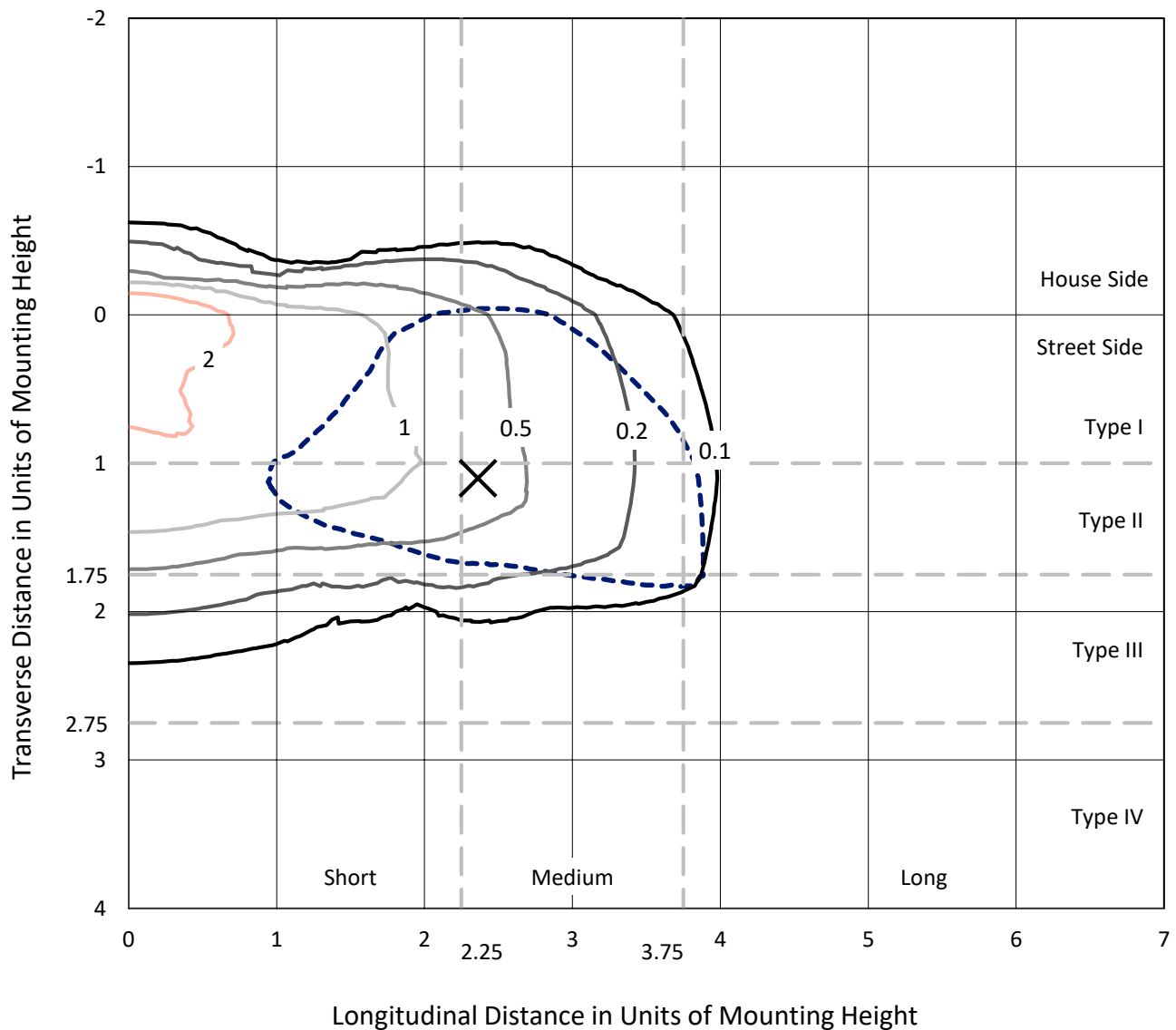
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

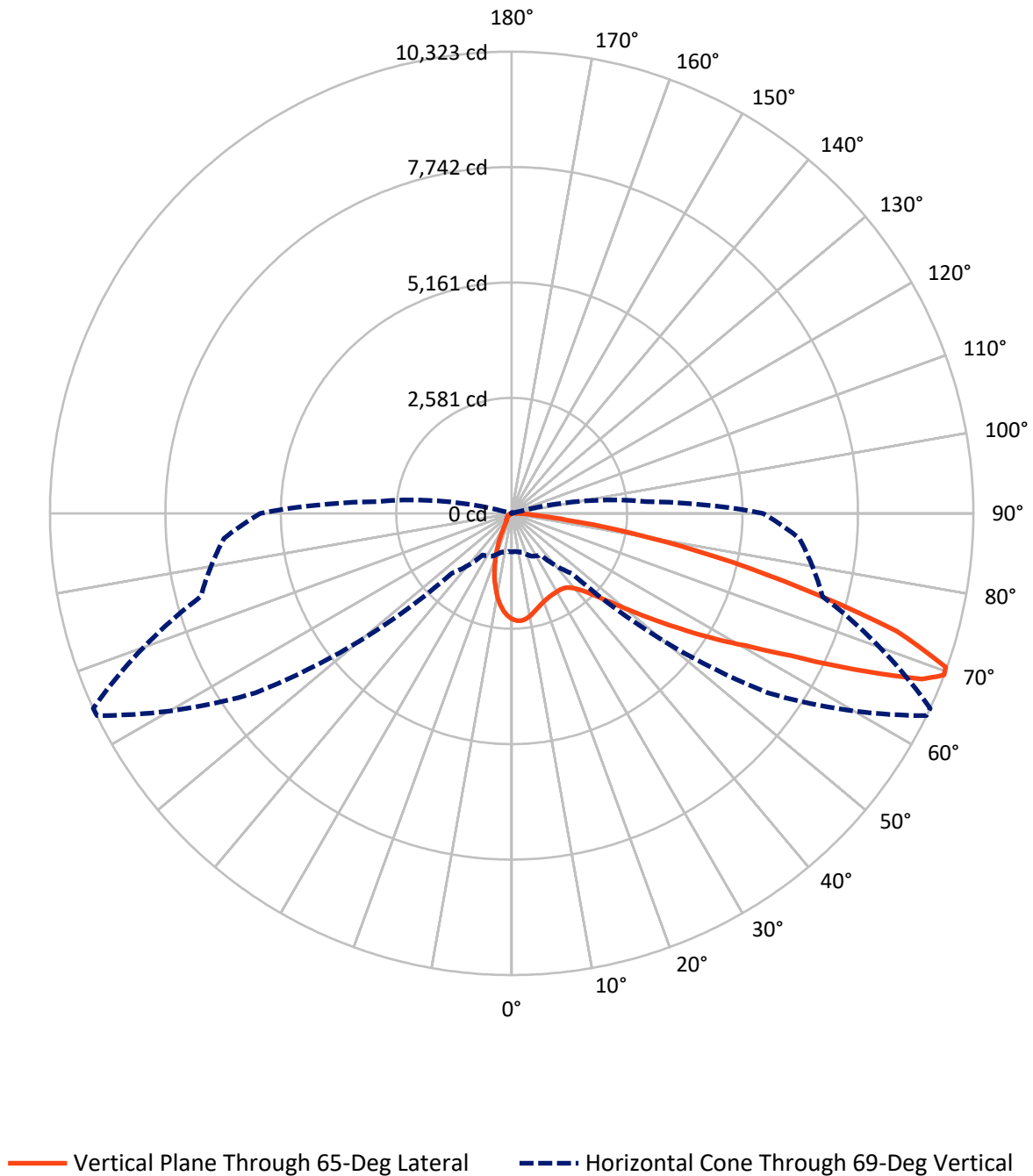
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1103.9	0.0	1103.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8261.1	0.0	8261.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	9365.0	0.0	9365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.1
10°-20°	433.2	4.6
20°-30°	600.0	6.4
30°-40°	836.6	8.9
40°-50°	1300.3	13.9
50°-60°	2087.5	22.3
60°-70°	2361.3	25.2
70°-80°	1386.8	14.8
80°-90°	161.3	1.7
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°	9365.0	100.0
0°-180°	9365.0	100.0

Coefficient of Utilization



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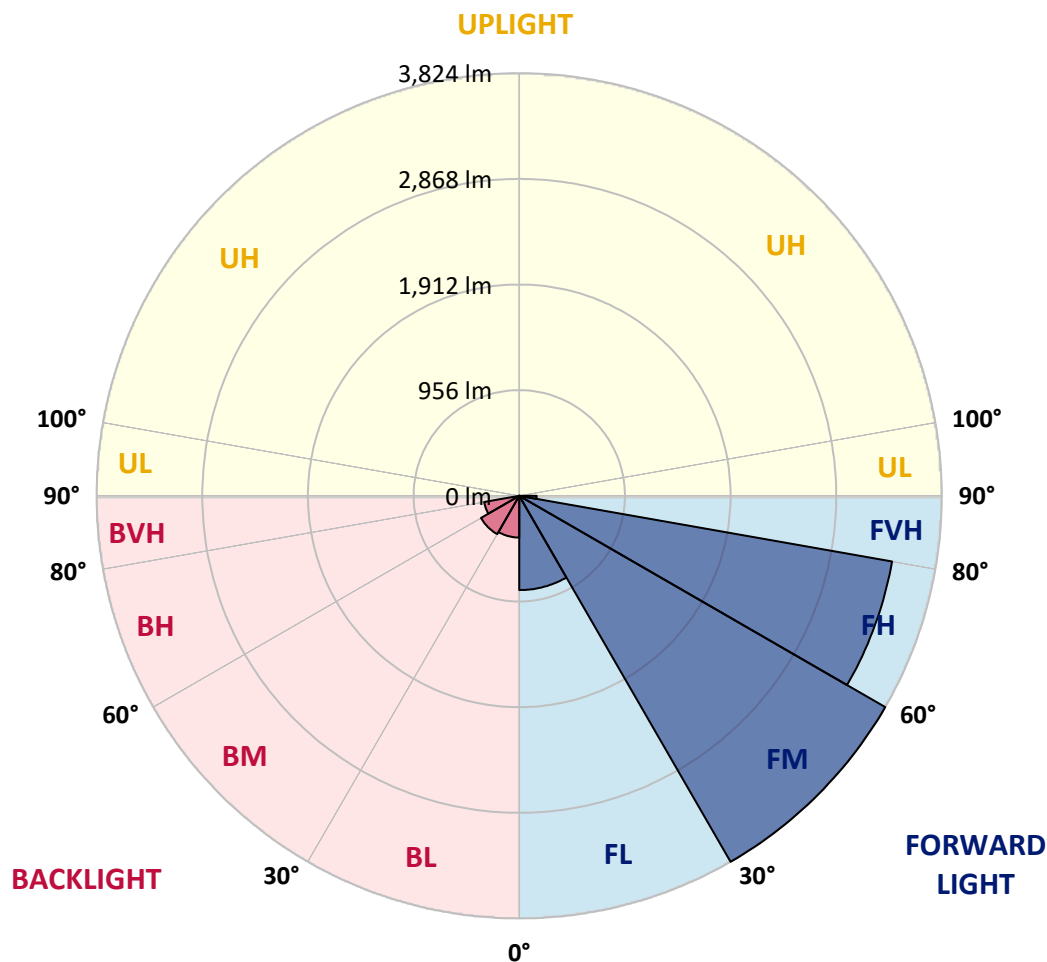
CATALOG NUMBER: GLEON-SA3A-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	853.4	9.1			
FM	(30°-60°)	3824.4	40.8			
FH	(60°-80°)	3425.6	36.6			G2/5000
FVH	(80°-90°)	157.7	1.7			G2/225
BL	(0°-30°)	377.7	4.0	B1/500		
BM	(30°-60°)	400.0	4.3	B1/1000		
BH	(60°-80°)	322.5	3.4	B1/500		G1/500
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6
2.5°	2387.6	2381.6	2386.4	2396.7	2401.8	2401.8	2405.8	2401.0	2402.6	2391.1	2374.5
5°	2238.2	2229.0	2242.1	2271.0	2306.7	2337.2	2382.4	2406.2	2408.6	2409.0	2389.5
7.5°	2077.3	2068.9	2088.4	2122.4	2168.4	2225.1	2303.9	2372.9	2376.9	2414.1	2399.8
10°	1946.5	1940.6	1963.1	1999.6	2053.5	2116.9	2213.6	2309.5	2321.0	2403.4	2398.3
12.5°	1842.7	1837.9	1859.3	1901.3	1956.4	2026.5	2127.6	2239.0	2254.4	2379.2	2390.3
15°	1767.0	1766.2	1784.0	1824.4	1885.5	1950.9	2054.3	2173.6	2191.4	2353.1	2389.1
17.5°	1727.4	1728.5	1741.6	1776.1	1828.4	1893.4	1992.5	2118.5	2137.9	2329.7	2395.1
20°	1723.4	1724.6	1731.7	1751.1	1793.5	1851.0	1942.1	2072.1	2092.3	2312.3	2404.6
22.5°	1758.3	1757.5	1759.5	1757.5	1781.3	1824.8	1908.9	2036.5	2059.8	2300.8	2412.1
25°	1825.2	1824.1	1823.3	1808.6	1792.7	1816.1	1895.0	2016.2	2038.4	2292.4	2416.5
27.5°	1918.4	1917.6	1916.4	1892.2	1844.7	1830.0	1896.6	2008.7	2027.3	2285.7	2415.7
30°	2040.8	2046.4	2044.8	2011.1	1937.0	1872.4	1913.2	2004.8	2021.0	2272.6	2407.4
32.5°	2184.7	2195.8	2204.5	2168.4	2075.7	1956.4	1951.7	2009.1	2021.0	2262.7	2392.3
35°	2334.1	2348.3	2380.4	2367.7	2245.7	2082.8	2017.8	2035.3	2045.2	2268.3	2385.2
37.5°	2481.1	2498.1	2567.9	2604.7	2468.4	2250.0	2120.9	2099.9	2105.0	2302.0	2393.1
40°	2651.9	2677.6	2783.4	2842.9	2734.3	2473.9	2275.0	2210.8	2212.8	2376.1	2430.0
42.5°	2876.2	2902.7	3017.2	3110.4	3033.9	2756.9	2484.2	2380.4	2378.4	2514.8	2516.7
45°	3149.6	3177.3	3295.8	3399.2	3364.8	3092.1	2752.1	2628.1	2625.7	2733.5	2681.2
47.5°	3459.5	3486.8	3592.6	3699.2	3736.5	3483.7	3093.3	2966.1	2960.6	3037.4	2935.2
50°	3725.4	3743.2	3840.7	3984.1	4152.2	3964.7	3517.7	3395.3	3389.3	3441.2	3308.1
52.5°	3822.1	3832.4	3931.4	4132.4	4551.6	4616.2	4075.3	3917.6	3913.2	3935.8	3804.6
55°	3626.3	3644.9	3766.6	4064.6	4768.0	5352.5	4779.1	4564.3	4531.4	4482.7	4323.8
57.5°	3092.9	3122.6	3253.4	3649.7	4666.9	5936.6	5813.3	5295.8	5247.5	4949.5	4745.8
60°	2317.4	2353.9	2462.5	2890.0	4127.6	6144.6	6943.5	6111.0	6002.0	5321.2	5133.7
62.5°	1590.2	1608.5	1682.2	1960.8	3039.8	5803.8	7889.0	7202.7	7003.8	5725.4	5553.4
65°	1214.6	1220.9	1251.0	1346.9	1810.2	4714.5	8265.1	8643.1	8402.6	6208.8	5988.9
67.5°	978.8	973.6	1015.3	1152.4	1212.2	2876.2	7826.4	10005.9	9893.4	6855.2	6427.2
69°	863.1	856.0	898.4	1057.7	1138.5	1901.3	6996.6	10315.4	10322.6	7196.3	6457.3
70°	776.7	781.5	823.5	1001.4	1113.5	1492.4	6204.1	10236.6	10292.8	7323.9	6276.6
72.5°	518.7	531.4	615.8	831.4	1070.7	1129.4	3746.0	8784.2	9000.6	7036.6	5385.0
75°	292.5	302.0	402.2	626.9	1008.9	1075.5	1978.6	6471.6	6680.8	5884.3	4152.6
77.5°	143.5	148.6	227.5	404.6	843.7	1024.8	1122.2	4395.9	4634.8	3840.7	2348.7
80°	60.6	63.4	113.7	249.7	603.1	978.0	833.4	2705.4	2735.1	1504.7	625.7
82.5°	23.4	24.2	47.9	155.7	383.2	762.4	697.0	1282.7	1251.8	283.3	142.7
85°	2.8	3.2	17.4	93.5	213.2	392.3	566.3	552.8	511.6	56.3	73.3
87.5°	0.0	0.0	1.2	28.5	63.4	183.9	294.4	229.4	206.9	18.2	38.0
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: GLEON-SA3A-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6
2.5°	2360.6	2356.6	2335.2	2304.3	2275.0	2238.6	2203.7	2182.7	2166.0	2154.9	2168.0
5°	2366.9	2349.5	2284.5	2201.3	2119.7	2027.7	1942.1	1869.6	1841.1	1809.4	1823.7
7.5°	2365.0	2332.1	2215.2	2067.0	1917.2	1762.2	1615.6	1502.7	1444.0	1386.6	1401.2
10°	2355.1	2299.6	2122.4	1902.9	1678.6	1455.9	1247.9	1089.8	1001.4	921.3	932.8
12.5°	2333.3	2256.0	2013.1	1715.1	1415.1	1121.5	877.7	675.3	566.7	518.7	524.7
15°	2320.2	2213.6	1897.4	1524.9	1133.7	781.1	536.6	399.0	349.5	333.7	335.6
17.5°	2313.8	2172.8	1777.7	1307.3	846.0	497.3	346.7	305.9	295.2	292.5	293.2
20°	2307.5	2131.6	1654.4	1092.1	582.9	334.5	284.9	273.0	269.1	265.5	266.3
22.5°	2296.8	2091.9	1522.1	874.2	393.1	271.4	256.8	245.3	237.0	232.6	233.4
25°	2283.7	2050.3	1387.0	651.1	286.9	242.1	228.3	212.0	202.1	194.2	194.6
27.5°	2262.7	1999.2	1247.5	473.9	240.9	216.8	198.1	180.3	163.7	154.5	154.5
30°	2233.4	1941.3	1092.5	339.2	216.0	191.8	169.2	147.0	129.2	120.9	120.1
32.5°	2200.9	1881.1	936.0	257.2	196.2	168.4	142.7	119.3	103.4	96.7	96.3
35°	2173.2	1816.1	779.9	215.6	176.3	145.8	117.7	97.9	85.2	79.7	79.3
37.5°	2155.3	1751.1	627.7	192.6	158.5	124.8	98.7	80.8	71.7	67.4	67.0
40°	2152.6	1702.8	488.6	175.2	141.9	106.2	82.4	68.6	60.2	55.5	55.1
42.5°	2188.6	1675.1	374.9	160.5	124.8	90.0	70.1	58.6	49.9	45.2	44.8
45°	2283.3	1683.8	288.5	147.4	107.8	76.1	59.4	48.7	40.8	37.2	36.5
47.5°	2456.1	1744.0	229.4	134.3	91.5	64.6	50.7	40.4	33.7	30.1	29.7
50°	2763.6	1885.5	191.8	120.1	76.5	55.1	42.0	32.9	27.3	24.2	23.8
52.5°	3171.8	2137.5	171.2	106.2	63.4	46.8	34.5	26.2	21.4	19.0	18.6
55°	3621.9	2442.6	157.7	91.1	51.9	38.8	27.3	20.6	16.6	14.7	13.9
57.5°	4061.4	2707.0	145.0	76.5	43.2	31.7	21.8	16.2	13.1	11.1	10.7
60°	4465.2	2949.9	130.4	61.4	35.3	25.0	17.0	12.7	10.3	8.3	8.3
62.5°	4897.6	3137.7	110.2	47.9	28.9	19.0	13.9	11.5	8.3	7.1	6.7
65°	5355.7	3277.2	86.4	37.2	22.6	14.3	11.5	11.9	6.7	5.2	4.8
67.5°	5694.1	3249.5	63.8	29.3	17.4	11.1	11.1	12.7	5.9	4.0	3.6
69°	5619.6	3024.0	53.5	25.4	15.1	9.5	10.3	12.7	5.5	3.6	3.2
70°	5403.6	2774.3	47.2	22.6	13.5	8.7	9.9	12.3	5.2	3.6	3.2
72.5°	4500.1	2089.6	36.9	17.0	10.7	7.1	8.3	10.7	5.2	3.6	2.8
75°	3385.0	1337.4	28.1	12.3	7.9	5.5	6.3	7.9	5.2	3.2	2.8
77.5°	1841.9	482.3	20.2	8.3	5.5	4.4	4.4	5.9	4.8	2.4	1.6
80°	473.5	121.3	12.7	5.5	4.4	3.2	2.8	4.0	2.8	0.4	0.0
82.5°	116.9	27.3	6.7	4.0	3.2	1.2	1.2	2.0	1.2	0.0	0.0
85°	64.2	13.5	4.4	2.8	1.6	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	32.9	4.0	1.2	0.8	0.4	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

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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 ^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			

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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			

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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			

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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)