

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: P318548

Luminaire Tested: **GLEON-SA4A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

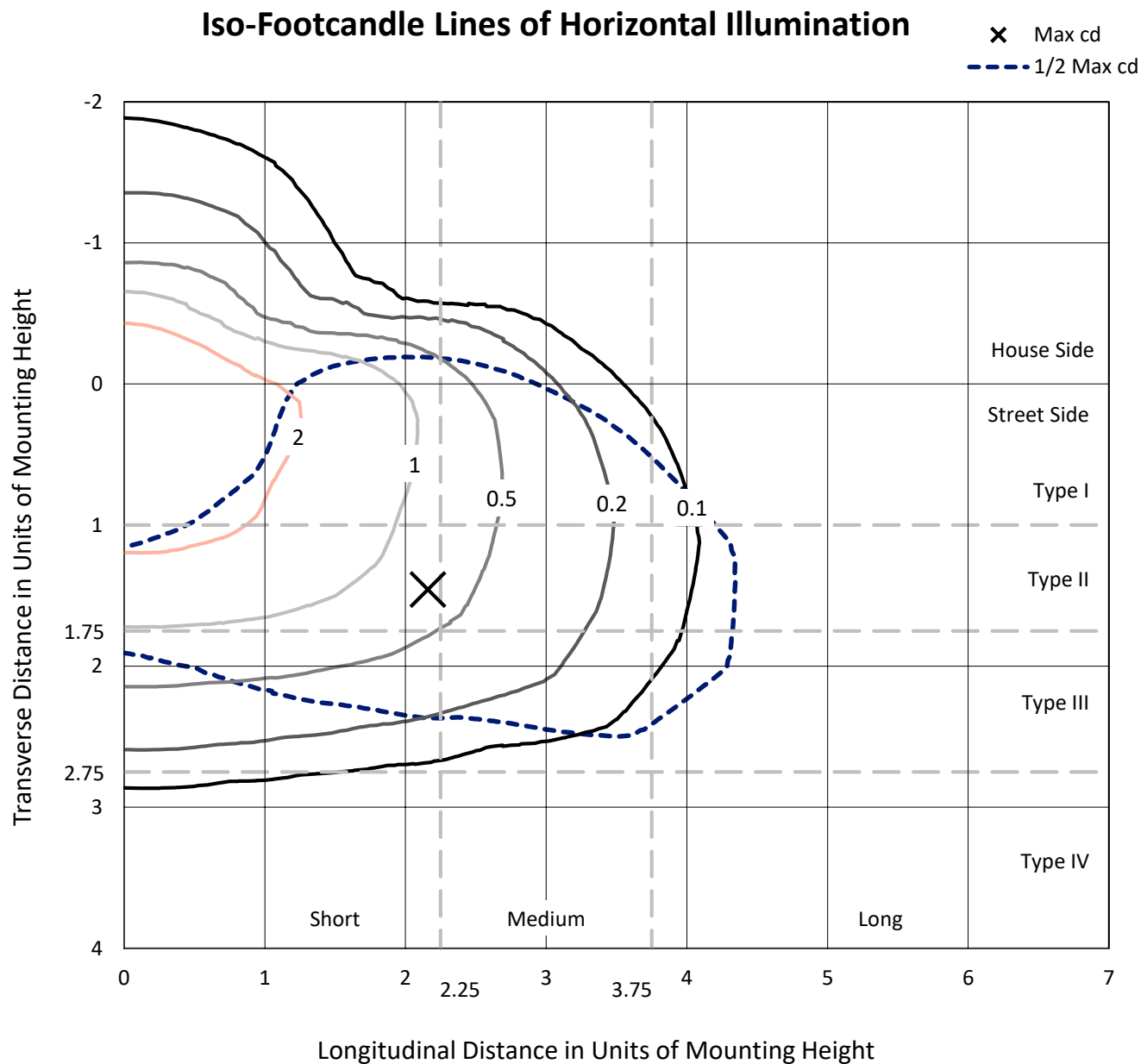
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14942 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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



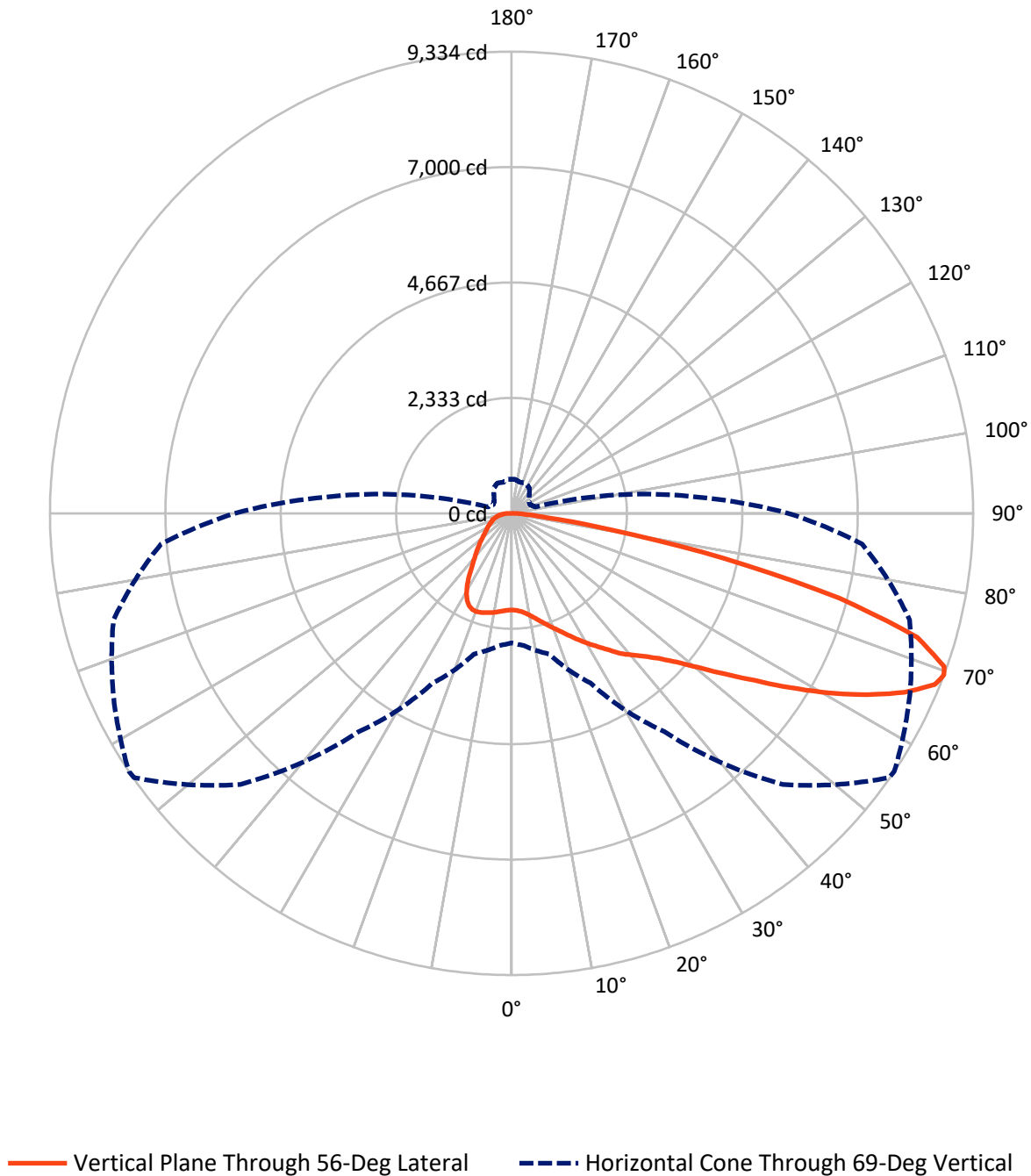
REPORT NUMBER: P318548
CATALOG NUMBER: GLEON-SA4A-830-U-T3



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P318548

CATALOG NUMBER: GLEON-SA4A-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.6	0.0	3327.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11614.4	0.0	11614.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	14942.0	0.0	14942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	1.3
10°-20°	616.9	4.1
20°-30°	1076.9	7.2
30°-40°	1547.0	10.4
40°-50°	2141.0	14.3
50°-60°	3136.8	21.0
60°-70°	3824.3	25.6
70°-80°	2114.3	14.2
80°-90°	292.8	2.0
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°	14942.0	100.0
0°-180°	14942.0	100.0

Coefficient of Utilization



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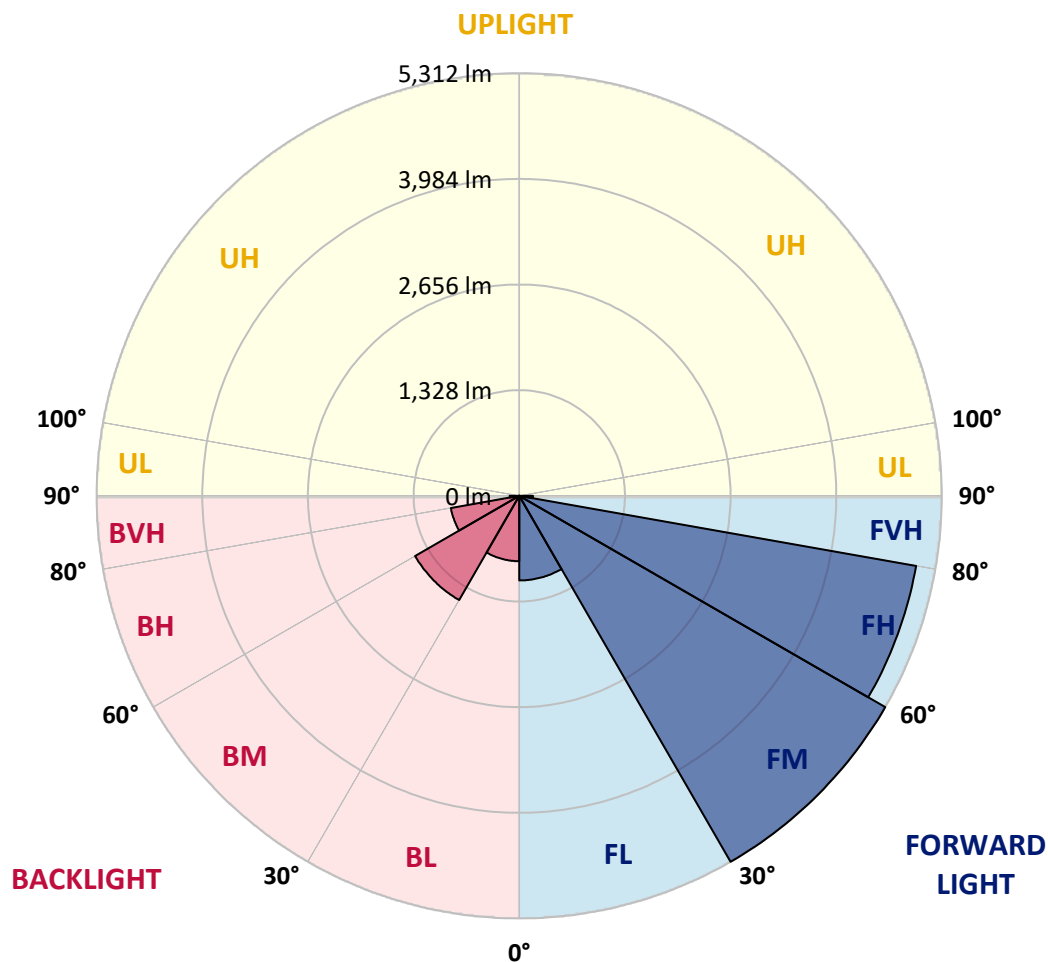
CATALOG NUMBER: GLEON-SA4A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.4	7.1			
FM	(30°-60°)	5312.4	35.6			
FH	(60°-80°)	5066.1	33.9			G3/7500
FVH	(80°-90°)	172.5	1.2			G2/225
BL	(0°-30°)	822.3	5.5	B2/1000		
BM	(30°-60°)	1512.3	10.1	B2/2500		
BH	(60°-80°)	872.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	120.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P318548

CATALOG NUMBER: GLEON-SA4A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	1965.8	1967.9	1966.3	1970.4	1965.8	1968.9	1966.3	1966.3	1964.8	1960.1	1955.0
5°	1996.7	2000.8	1998.2	2002.3	1996.7	1997.7	1993.1	1993.1	1988.4	1978.7	1968.4
7.5°	2045.1	2049.7	2047.6	2051.8	2044.0	2044.0	2037.9	2037.3	2028.1	2012.1	2000.3
10°	2102.7	2108.9	2106.8	2113.0	2106.8	2108.9	2102.7	2102.7	2090.4	2067.7	2052.8
12.5°	2186.6	2194.3	2188.7	2188.2	2185.6	2189.7	2184.6	2183.5	2172.2	2141.3	2120.7
15°	2298.8	2307.1	2295.2	2294.2	2279.8	2278.2	2278.2	2276.7	2269.5	2232.4	2198.5
17.5°	2428.0	2430.6	2420.3	2403.8	2385.3	2373.5	2371.9	2376.0	2376.0	2332.8	2278.8
20°	2554.7	2559.3	2551.1	2532.5	2508.8	2491.3	2479.0	2487.2	2486.7	2435.2	2358.5
22.5°	2692.6	2703.4	2691.1	2667.4	2639.6	2620.0	2598.4	2605.6	2606.1	2542.8	2436.8
25°	2871.2	2861.4	2853.7	2820.3	2780.6	2760.6	2740.5	2747.7	2745.6	2658.6	2517.6
27.5°	3029.2	3031.3	3021.0	2985.5	2939.7	2895.4	2894.4	2899.0	2891.3	2779.1	2593.8
30°	3213.0	3214.0	3199.6	3167.7	3117.8	3060.6	3047.3	3055.0	3038.5	2893.4	2674.1
32.5°	3395.7	3400.9	3384.9	3346.3	3306.2	3236.7	3209.9	3215.1	3173.9	3010.2	2757.0
35°	3555.8	3563.0	3557.9	3532.2	3488.4	3428.7	3396.8	3393.7	3342.7	3153.3	2866.6
37.5°	3719.0	3725.7	3720.0	3698.4	3680.9	3617.6	3600.6	3600.6	3512.1	3299.5	3006.1
40°	3886.8	3897.1	3890.4	3860.6	3845.6	3816.8	3776.1	3766.4	3670.6	3475.0	3233.6
42.5°	4042.8	4056.2	4082.9	4065.4	4035.1	4039.2	3957.3	3952.2	3882.2	3734.4	3519.3
45°	4264.1	4283.7	4329.0	4315.6	4309.4	4286.8	4189.5	4184.8	4158.1	4083.4	3873.9
47.5°	4505.5	4532.3	4614.1	4616.7	4683.1	4640.4	4508.1	4492.1	4498.3	4501.4	4306.8
50°	4727.9	4757.2	4891.6	4954.9	5111.4	5120.6	4909.1	4894.7	4918.9	4989.9	4811.3
52.5°	4905.5	4942.5	5110.3	5305.9	5574.1	5650.3	5402.7	5391.9	5409.9	5532.4	5381.6
55°	5035.7	5075.9	5258.6	5614.8	6043.1	6177.4	5971.0	5960.7	5972.0	6128.0	6001.9
57.5°	5066.1	5075.9	5341.0	5822.7	6438.9	6761.6	6666.4	6645.8	6590.2	6726.1	6686.5
60°	4923.5	4962.6	5273.0	5895.8	6745.2	7337.6	7393.2	7367.5	7211.5	7322.7	7290.8
62.5°	4634.2	4704.2	5019.2	5784.7	6865.1	7808.1	8106.1	8075.3	7806.6	7878.6	7725.2
65°	4161.7	4191.5	4522.5	5401.2	6712.7	8109.2	8741.8	8726.4	8388.2	8275.5	7805.5
67.5°	3316.5	3372.6	3653.6	4599.7	6089.4	8073.7	9233.4	9231.9	8768.1	8422.7	7520.9
69°	2620.0	2678.2	2945.9	3789.0	5388.3	7748.9	9315.8	9333.8	8875.2	8333.1	7114.2
70°	2088.8	2156.2	2340.0	3191.4	4766.0	7320.6	9247.3	9279.7	8854.6	8185.4	6739.0
72.5°	889.0	943.5	1074.3	1645.1	2904.7	5466.5	8455.1	8577.6	8377.4	7491.5	5569.5
75°	388.1	405.1	464.3	670.7	1289.4	2975.2	6623.7	6850.2	7163.1	6332.3	4148.8
77.5°	284.1	291.3	323.8	393.8	578.6	1123.7	4259.5	4391.3	5165.9	4608.0	2544.9
80°	219.8	224.9	250.2	289.3	377.8	454.5	1942.6	2055.9	2904.7	2366.8	1059.9
82.5°	175.0	178.6	196.1	213.1	261.0	275.4	645.0	715.5	1072.2	653.7	280.5
85°	162.7	166.8	173.0	155.5	167.3	161.6	279.0	291.9	323.8	256.9	117.4
87.5°	73.6	87.0	171.4	121.0	89.1	71.0	114.3	119.4	134.3	134.9	52.0
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-SA4A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	1958.1	1956.5	1959.1	1952.9	1960.6	1960.1	1957.6	1958.6	1963.7	1963.2	1963.7
5°	1969.9	1968.9	1972.0	1967.3	1976.6	1979.7	1980.2	1984.8	1990.5	1992.0	1992.0
7.5°	1999.8	1999.8	2001.3	1995.1	2001.3	2000.8	1998.2	2002.9	2008.5	2009.0	2008.5
10°	2051.2	2051.8	2049.2	2033.2	2028.1	2014.2	2001.3	2001.8	2009.0	2014.7	2016.2
12.5°	2116.1	2114.0	2102.7	2073.4	2051.8	2023.4	2010.1	2009.5	2016.8	2021.4	2022.9
15°	2190.2	2184.6	2155.2	2107.3	2069.3	2041.5	2019.8	2014.7	2010.6	2005.4	2005.9
17.5°	2260.2	2247.4	2198.5	2132.1	2091.9	2054.8	2013.2	1979.7	1956.5	1943.1	1939.0
20°	2331.3	2306.0	2235.5	2155.2	2104.3	2036.8	1956.5	1888.6	1846.4	1826.8	1823.2
22.5°	2396.1	2355.5	2270.0	2179.4	2094.5	1976.1	1850.0	1751.1	1692.5	1666.2	1668.3
25°	2459.4	2402.8	2306.0	2196.4	2045.1	1869.0	1701.7	1580.3	1512.3	1483.0	1481.9
27.5°	2515.0	2450.7	2345.2	2182.5	1952.9	1716.7	1526.2	1407.8	1351.2	1326.0	1321.9
30°	2578.9	2510.9	2397.1	2129.5	1818.1	1540.6	1354.8	1271.4	1231.3	1206.0	1201.4
32.5°	2656.6	2592.7	2439.9	2033.2	1645.6	1356.9	1221.0	1162.8	1126.3	1097.9	1092.8
35°	2769.8	2700.8	2450.7	1895.3	1456.2	1211.7	1122.6	1062.9	1013.5	977.0	973.4
37.5°	2911.9	2836.2	2426.0	1716.7	1272.4	1117.5	1040.8	967.2	902.9	851.4	843.1
40°	3116.8	3002.5	2357.5	1510.8	1137.1	1044.9	961.0	877.1	797.3	737.1	725.3
42.5°	3362.8	3197.6	2252.5	1305.9	1037.7	971.3	881.8	777.8	701.6	658.9	652.7
45°	3675.8	3400.4	2106.8	1126.8	939.9	897.7	796.3	700.6	653.2	621.8	616.7
47.5°	4033.0	3627.9	1954.0	981.1	857.0	828.7	727.8	666.1	628.5	603.8	599.2
50°	4472.1	3884.7	1791.8	861.7	773.7	745.9	695.4	647.0	617.2	598.1	593.5
52.5°	4967.2	4174.5	1675.0	767.5	704.7	684.6	678.4	636.7	612.5	598.1	593.5
55°	5500.5	4469.5	1548.9	688.2	645.0	650.6	667.1	637.8	621.3	603.8	597.1
57.5°	6034.3	4774.2	1408.3	621.3	597.6	625.4	659.4	639.8	625.9	608.9	602.8
60°	6456.4	4967.2	1190.6	565.2	560.0	597.6	640.9	624.4	606.4	606.9	605.8
62.5°	6653.5	4957.0	950.2	515.3	522.5	560.0	611.0	600.2	585.3	605.3	606.9
65°	6542.9	4709.9	739.7	470.0	482.3	520.9	580.1	588.3	593.5	632.1	637.2
67.5°	6078.6	4229.1	572.9	430.3	445.8	494.2	583.2	640.9	647.5	688.2	687.7
69°	5598.3	3778.2	497.8	409.7	427.7	500.8	623.4	674.3	649.1	692.3	686.1
70°	5195.8	3421.5	457.6	395.8	419.5	512.7	650.1	673.8	641.4	678.4	668.1
72.5°	4001.6	2461.5	388.1	370.1	391.7	490.5	657.8	658.9	623.4	630.6	613.1
75°	2744.6	1555.5	338.7	335.1	349.5	442.2	633.1	629.5	576.5	566.2	551.8
77.5°	1513.3	790.1	287.7	301.6	311.4	391.7	575.5	570.3	526.6	505.0	499.8
80°	583.7	345.9	243.0	268.2	274.4	339.2	504.4	499.8	463.3	435.5	427.7
82.5°	220.3	181.2	200.7	232.1	230.1	280.0	427.2	424.7	389.1	348.5	336.1
85°	101.9	108.6	159.1	191.5	176.6	207.4	341.8	346.4	303.2	254.8	254.8
87.5°	43.2	60.7	112.7	144.6	118.9	140.0	250.7	239.4	219.8	152.4	143.1
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

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



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)