

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: P318888

Luminaire Tested: **GLEON-SA4C-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22809 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

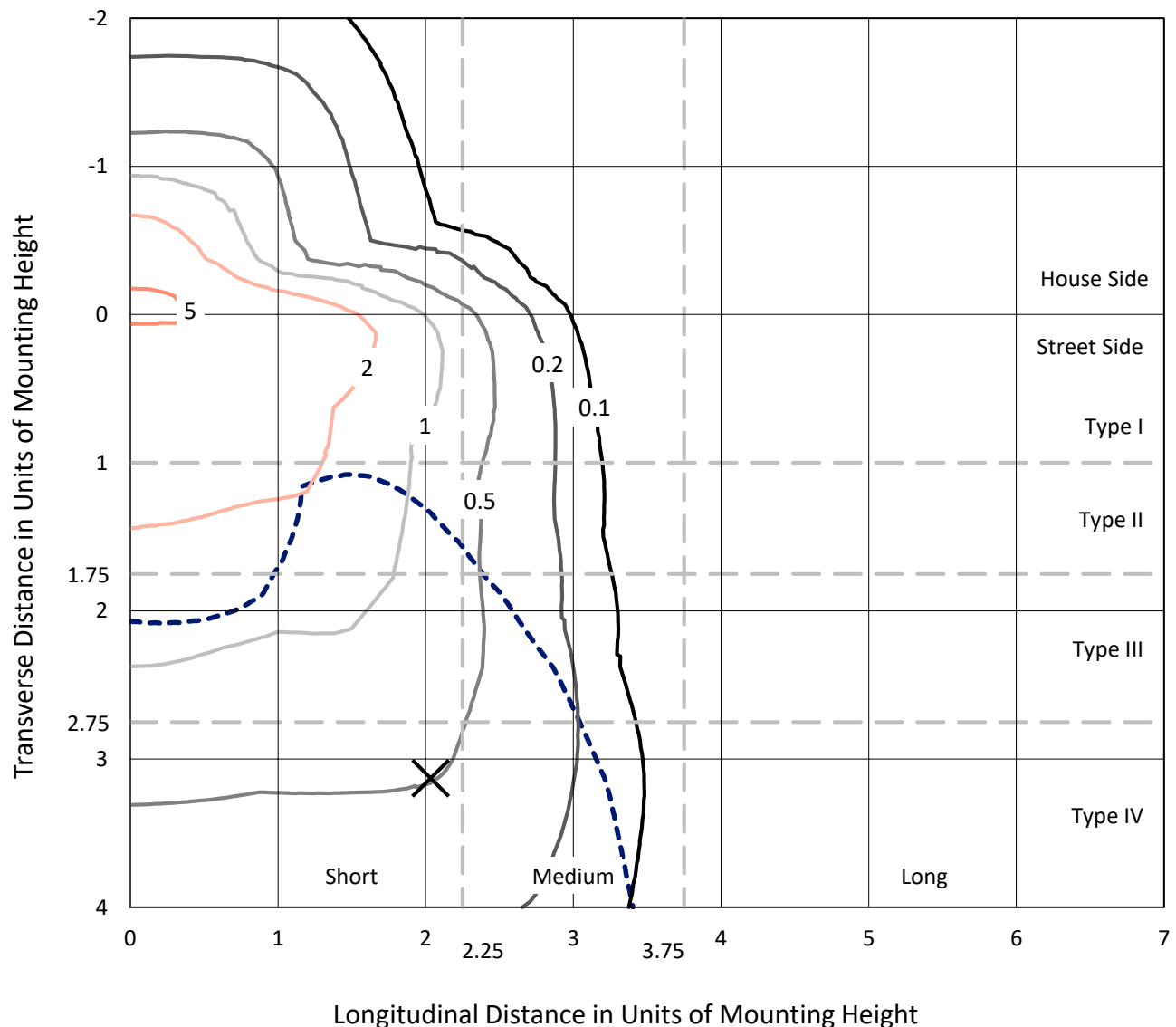


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Iso-Footcandle Lines of Horizontal Illumination

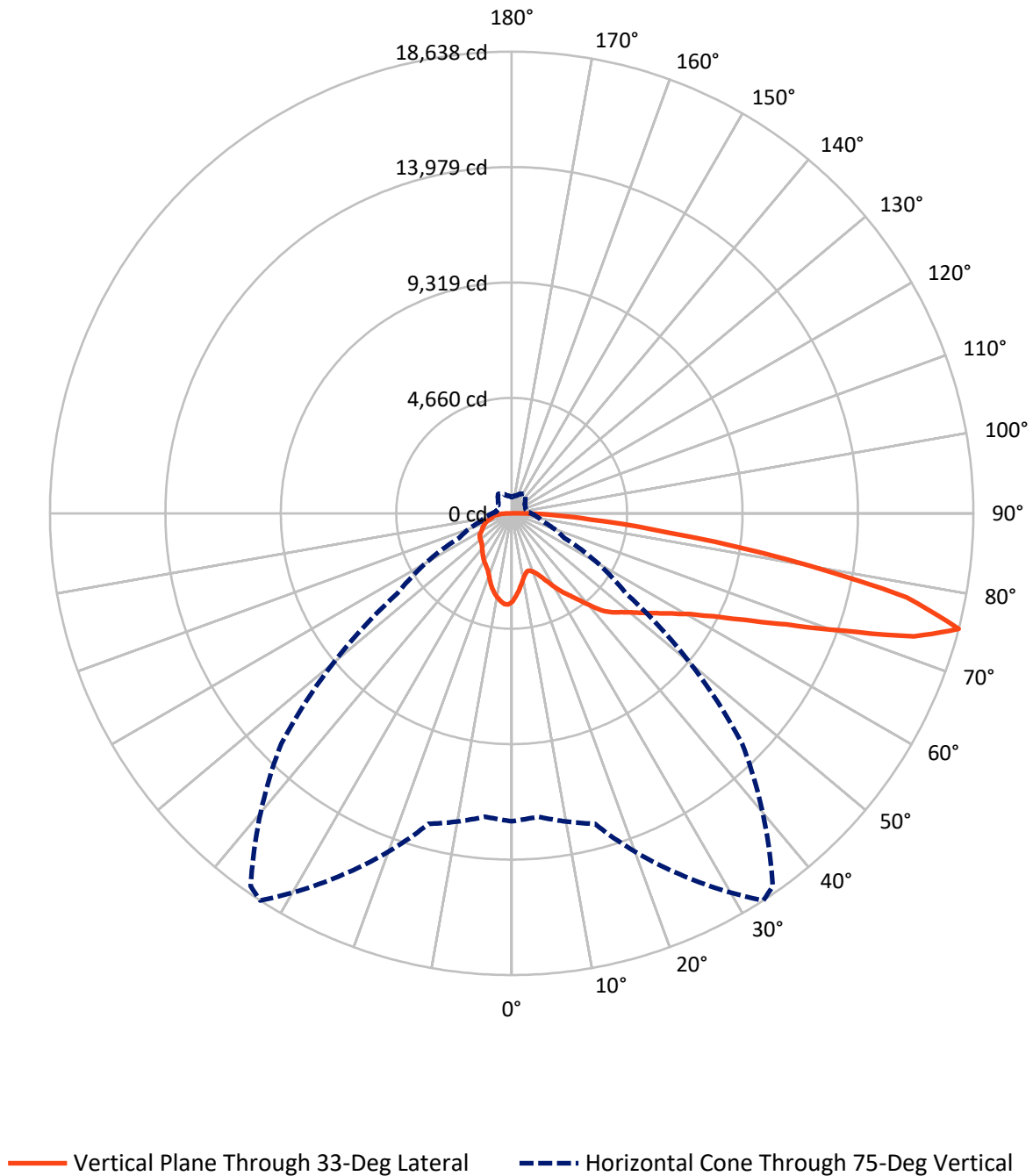
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA4C-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4897.7	0.0	4897.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17911.3	0.0	17911.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	22809.0	0.0	22809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.4
10°-20°	873.3	3.8
20°-30°	1426.2	6.3
30°-40°	2123.9	9.3
40°-50°	3046.2	13.4
50°-60°	4182.0	18.3
60°-70°	5235.7	23.0
70°-80°	4736.5	20.8
80°-90°	862.8	3.8
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°	22809.0	100.0
0°-180°	22809.0	100.0

Coefficient of Utilization



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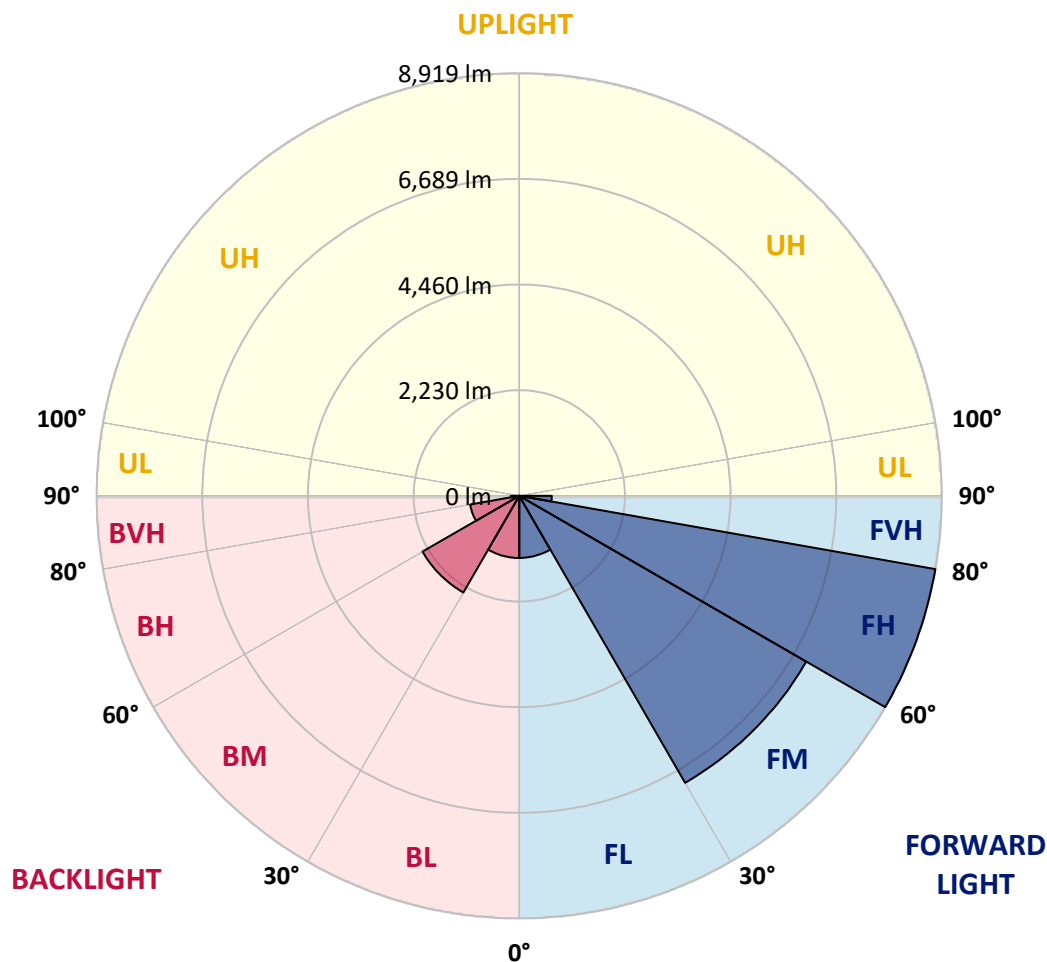
CATALOG NUMBER: GLEON-SA4C-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.0	5.7			
FM	(30°-60°)	6995.0	30.7			
FH	(60°-80°)	8919.1	39.1			G4/12000
FVH	(80°-90°)	687.1	3.0			G4/750
BL	(0°-30°)	1311.8	5.8	B3/2500		
BM	(30°-60°)	2357.1	10.3	B2/2500		
BH	(60°-80°)	1053.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	175.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2
2.5°	3310.7	3298.1	3321.7	3324.9	3345.4	3353.2	3381.6	3425.7	3462.0	3503.7	3541.5
5°	3010.5	3001.8	3034.9	3058.6	3103.5	3122.4	3189.4	3283.1	3366.6	3461.2	3547.1
7.5°	2725.3	2720.6	2757.6	2811.2	2863.2	2889.2	3005.0	3141.3	3280.7	3433.6	3565.2
10°	2485.0	2483.4	2518.9	2571.7	2648.1	2677.2	2826.9	3006.6	3202.0	3412.3	3595.9
12.5°	2350.3	2355.8	2372.3	2416.4	2487.3	2516.5	2682.7	2893.9	3135.8	3405.2	3640.8
15°	2383.3	2392.0	2363.7	2362.1	2412.5	2435.3	2591.4	2813.5	3088.5	3417.1	3706.2
17.5°	2524.4	2526.0	2451.1	2403.8	2434.6	2446.4	2563.0	2767.8	3060.9	3443.8	3788.1
20°	2722.9	2719.0	2586.6	2507.8	2524.4	2527.5	2603.2	2768.6	3058.6	3490.3	3894.5
22.5°	2986.1	2956.9	2778.9	2671.7	2667.8	2663.0	2706.4	2826.9	3093.2	3566.0	4021.4
25°	3329.6	3302.0	3057.0	2910.4	2878.9	2867.1	2873.4	2951.4	3161.8	3647.1	4163.2
27.5°	3711.7	3663.7	3427.3	3220.1	3154.7	3138.1	3100.3	3127.1	3236.6	3725.1	4331.8
30°	4031.6	4005.6	3799.2	3553.4	3476.1	3452.5	3353.2	3324.1	3344.6	3831.5	4544.5
32.5°	4210.5	4193.1	4067.8	3869.3	3797.6	3764.5	3624.3	3566.0	3517.9	3999.3	4832.9
35°	4427.1	4416.1	4340.5	4196.3	4089.9	4055.2	3946.5	3885.8	3762.1	4230.1	5205.5
37.5°	4702.9	4691.1	4692.6	4576.0	4449.2	4416.9	4345.2	4281.4	4078.9	4533.5	5610.5
40°	5014.9	4992.0	4983.4	4977.9	4897.5	4879.4	4841.5	4754.9	4476.0	4895.9	6010.0
42.5°	5484.5	5403.3	5230.0	5295.4	5374.9	5365.5	5396.2	5271.7	4917.2	5324.5	6400.0
45°	5937.5	5804.3	5504.9	5519.1	5693.2	5746.0	5976.1	5887.9	5395.4	5794.1	6803.4
47.5°	6143.9	6043.1	5788.6	5789.4	5961.9	6071.4	6575.7	6512.6	5898.1	6327.5	7295.8
50°	6374.8	6273.9	6045.4	6131.3	6281.8	6398.4	7154.8	7122.5	6376.3	6911.3	7885.9
52.5°	6626.9	6455.9	6310.9	6464.6	6675.7	6811.3	7734.7	7646.4	6815.2	7499.1	8564.3
55°	6630.0	6583.6	6693.9	6806.5	7122.5	7288.7	8342.1	8108.9	7172.9	8076.6	9116.6
57.5°	7007.4	6931.8	7165.8	7217.8	7630.7	7818.2	8946.4	8511.5	7536.9	8519.4	9414.4
60°	7507.0	7442.4	7633.8	7770.9	8259.4	8509.9	9591.7	8925.1	7822.9	8853.5	9400.2
62.5°	8369.7	8296.4	8294.1	8486.3	9144.2	9435.7	10315.8	9330.9	7936.4	8919.6	8999.2
65°	9632.7	9516.1	9296.2	9387.6	10366.2	10656.9	11124.9	9624.8	7786.7	8565.1	7966.3
67.5°	10861.8	10857.8	10587.6	10775.1	11979.8	12213.0	12046.7	9653.9	7319.4	7330.5	6133.7
70°	12086.9	12102.7	12057.0	12709.4	14159.8	14402.5	13028.4	9262.4	6269.2	5293.8	3674.7
72.5°	13057.6	13053.7	13283.7	14965.9	16989.1	16934.8	13855.7	8075.8	4501.2	2857.7	1756.2
75°	12428.9	12291.8	12977.2	16083.1	18638.2	18372.7	13152.1	5633.4	2336.1	1300.8	945.5
77.5°	8106.5	8236.5	9242.7	13286.1	16302.9	15979.9	9649.2	2628.4	1100.7	853.3	685.5
80°	2935.7	3072.7	4327.8	7525.9	11232.1	11179.3	4751.7	1080.2	744.6	644.5	499.5
82.5°	1010.1	1060.5	1707.3	3342.2	6341.7	6578.0	1787.7	613.8	541.3	457.0	341.9
85°	396.3	453.8	780.8	1608.1	3198.8	3222.4	724.1	367.2	376.6	299.4	187.5
87.5°	150.5	182.8	373.5	746.9	1460.7	1341.8	259.2	174.9	214.3	178.1	89.0
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-SA4C-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2	3565.2
2.5°	3570.7	3587.2	3621.9	3645.5	3670.8	3677.8	3681.0	3687.3	3693.6	3691.2	3692.0
5°	3592.8	3625.1	3681.0	3704.6	3715.7	3703.1	3678.6	3658.9	3644.8	3636.9	3634.5
7.5°	3629.0	3674.7	3734.6	3730.6	3705.4	3649.5	3586.4	3539.2	3499.8	3485.6	3477.7
10°	3677.1	3730.6	3772.4	3727.5	3654.2	3557.3	3462.7	3389.5	3330.4	3307.5	3303.6
12.5°	3738.5	3792.9	3800.8	3705.4	3584.1	3451.7	3323.3	3226.4	3138.1	3109.8	3103.5
15°	3818.1	3869.3	3820.4	3666.8	3497.4	3319.4	3153.1	3021.5	2928.6	2893.9	2881.3
17.5°	3901.6	3950.4	3824.4	3603.0	3384.0	3162.6	2953.8	2819.0	2712.7	2672.5	2667.8
20°	4001.7	4023.7	3807.8	3511.6	3228.0	2959.3	2739.5	2612.6	2555.9	2527.5	2524.4
22.5°	4125.4	4101.7	3770.0	3387.9	3030.2	2724.5	2545.7	2486.6	2472.4	2466.1	2468.4
25°	4256.1	4183.7	3714.1	3226.4	2780.4	2489.7	2403.8	2420.4	2439.3	2436.9	2436.9
27.5°	4400.3	4267.2	3628.2	3012.1	2503.9	2297.5	2307.7	2368.4	2396.7	2396.0	2395.2
30°	4585.5	4361.7	3518.7	2754.4	2245.5	2162.0	2224.2	2298.3	2336.9	2335.3	2336.1
32.5°	4813.2	4465.7	3369.8	2466.9	2058.7	2061.9	2133.6	2206.9	2251.8	2247.8	2248.6
35°	5079.5	4582.3	3168.1	2183.2	1935.0	1982.3	2039.0	2090.3	2132.8	2127.3	2121.8
37.5°	5369.4	4696.6	2900.2	1929.5	1834.2	1908.3	1955.5	1964.2	1983.9	1969.7	1959.5
40°	5645.2	4784.0	2555.1	1721.5	1732.6	1845.2	1876.0	1841.3	1805.8	1801.1	1786.9
42.5°	5885.5	4813.2	2206.1	1555.3	1625.4	1779.0	1798.0	1725.5	1661.6	1631.7	1619.1
45°	6139.2	4823.4	1880.7	1415.8	1522.2	1720.0	1740.4	1643.5	1553.7	1489.1	1467.8
47.5°	6470.9	4897.5	1627.8	1312.6	1443.4	1680.6	1709.7	1578.1	1461.5	1369.3	1349.6
50°	6905.0	5044.0	1422.1	1233.8	1392.2	1654.6	1687.6	1514.3	1385.9	1274.8	1255.1
52.5°	7387.2	5178.8	1255.9	1170.0	1342.6	1608.9	1659.3	1468.6	1315.0	1187.3	1166.1
55°	7724.4	5075.5	1121.9	1103.8	1277.9	1543.5	1619.9	1430.0	1213.3	1102.2	1083.3
57.5°	7789.0	4722.6	1020.3	1035.3	1199.9	1461.5	1559.2	1344.1	1158.2	1065.2	1045.5
60°	7612.5	4230.9	944.7	972.2	1116.4	1358.3	1445.8	1283.5	1105.4	1025.8	1009.3
62.5°	7169.0	3727.5	888.7	915.5	1038.4	1253.5	1374.9	1219.6	1051.8	980.9	964.4
65°	6273.1	3129.5	835.2	865.1	965.9	1162.9	1311.0	1160.6	999.0	944.7	928.9
67.5°	4735.2	2344.0	784.7	811.5	901.3	1084.1	1241.7	1102.2	947.8	913.2	894.2
70°	2788.3	1467.8	727.2	755.6	833.6	1002.2	1167.6	1038.4	884.0	868.2	843.8
72.5°	1297.6	883.2	661.8	689.4	748.5	892.7	1072.3	954.9	808.4	773.7	740.6
75°	774.5	646.1	584.6	609.0	650.8	776.1	952.6	869.8	736.7	691.0	656.3
77.5°	579.1	494.0	499.5	525.5	559.4	679.2	843.8	802.9	681.5	646.1	622.4
80°	416.8	375.0	407.3	435.7	471.2	617.7	808.4	742.2	616.1	568.9	546.8
82.5°	278.1	269.5	306.5	335.6	370.3	540.5	759.5	650.0	526.3	466.4	417.6
85°	153.6	162.3	206.4	219.0	249.0	380.5	622.4	522.4	396.3	319.1	304.9
87.5°	63.8	74.8	111.1	107.2	132.4	226.9	409.7	315.2	252.1	188.3	146.5
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

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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)