

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: P318871

Luminaire Tested: **GLEON-SA7A-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318871
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-SA7A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 26351 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

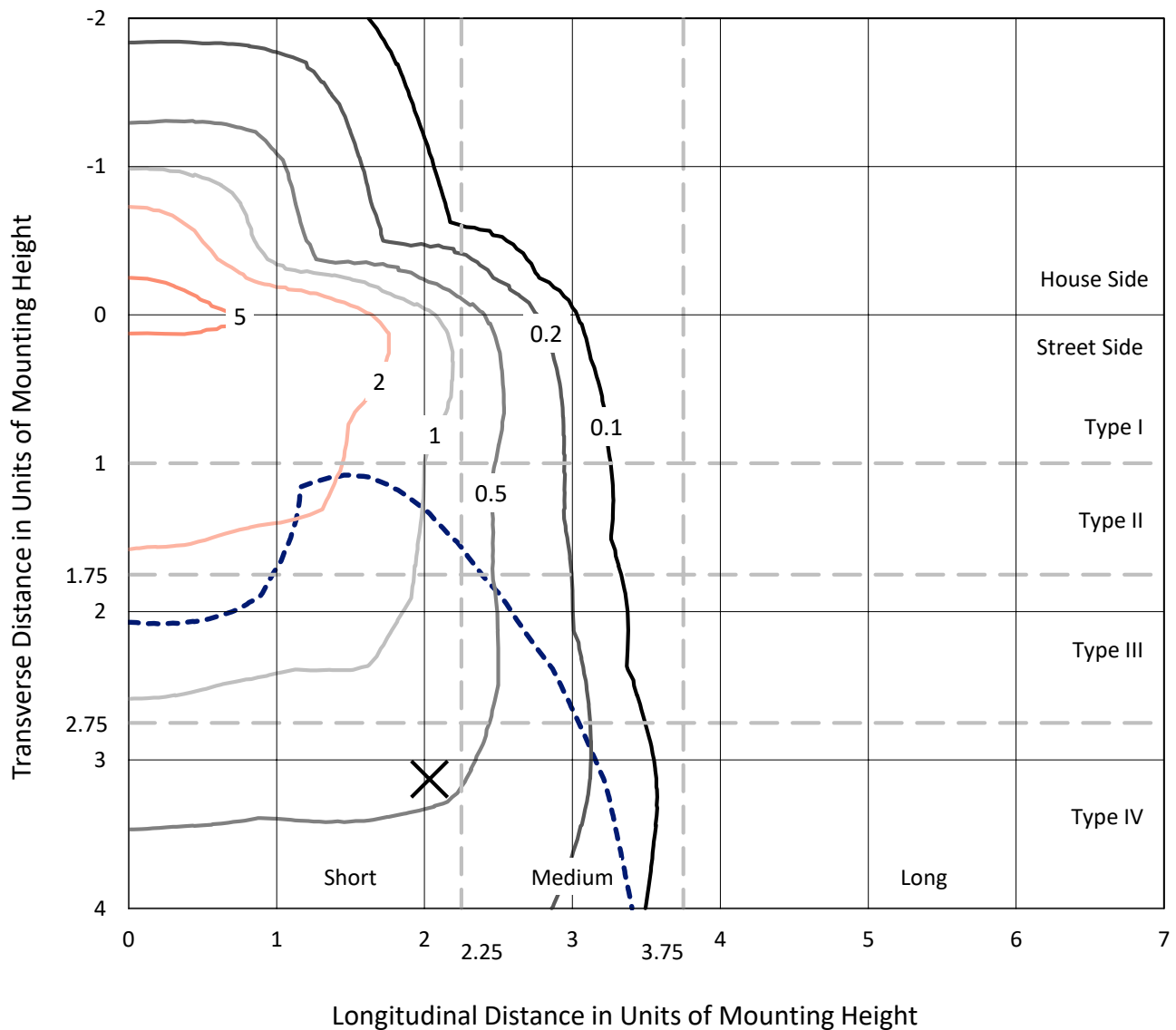
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

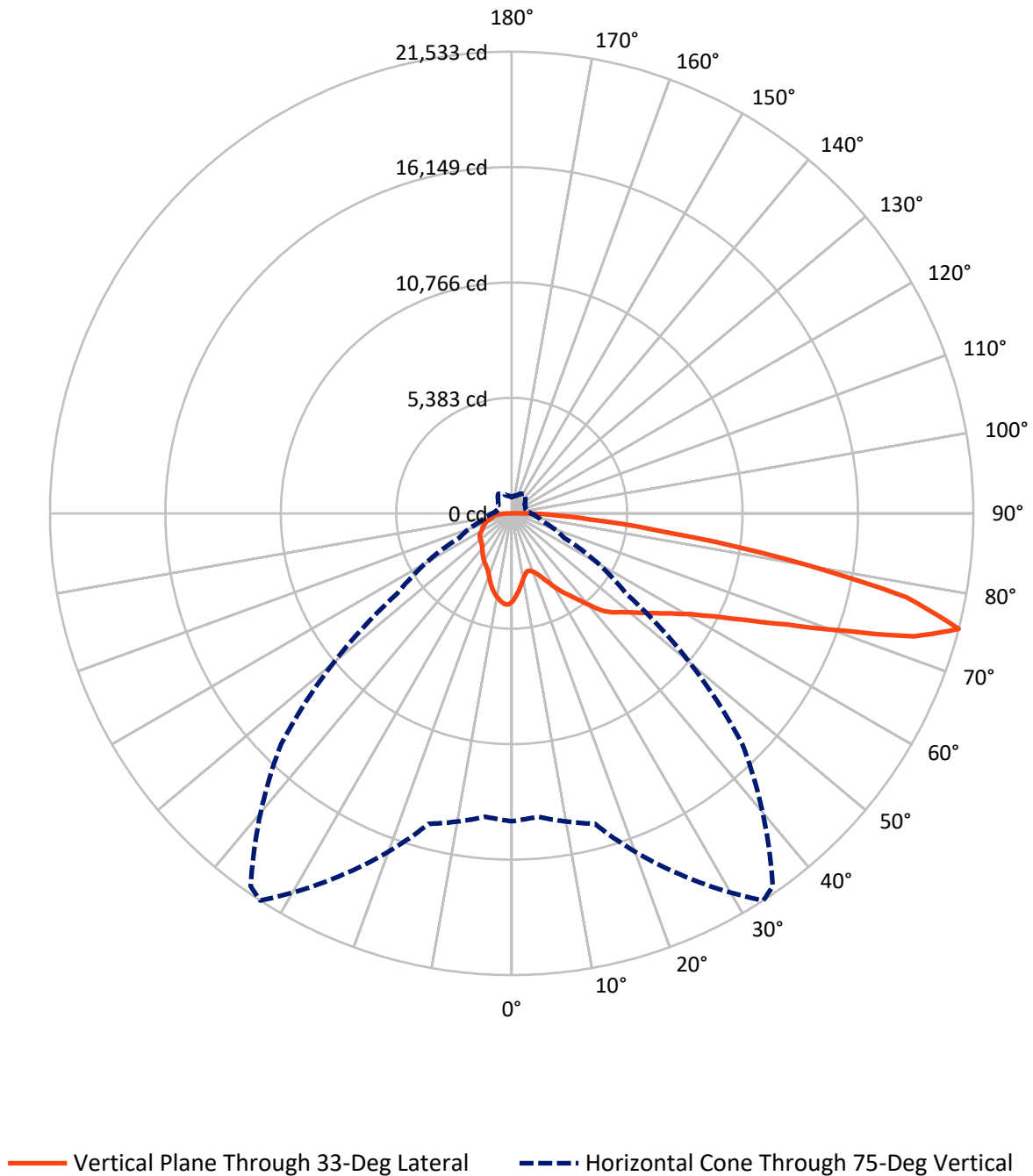
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA7A-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5658.2	0.0	5658.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	20692.8	0.0	20692.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	26351.0	0.0	26351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.5	1.4
10°-20°	1008.9	3.8
20°-30°	1647.6	6.3
30°-40°	2453.7	9.3
40°-50°	3519.3	13.4
50°-60°	4831.4	18.3
60°-70°	6048.8	23.0
70°-80°	5472.0	20.8
80°-90°	996.8	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°	26351.0	100.0
0°-180°	26351.0	100.0

Coefficient of Utilization



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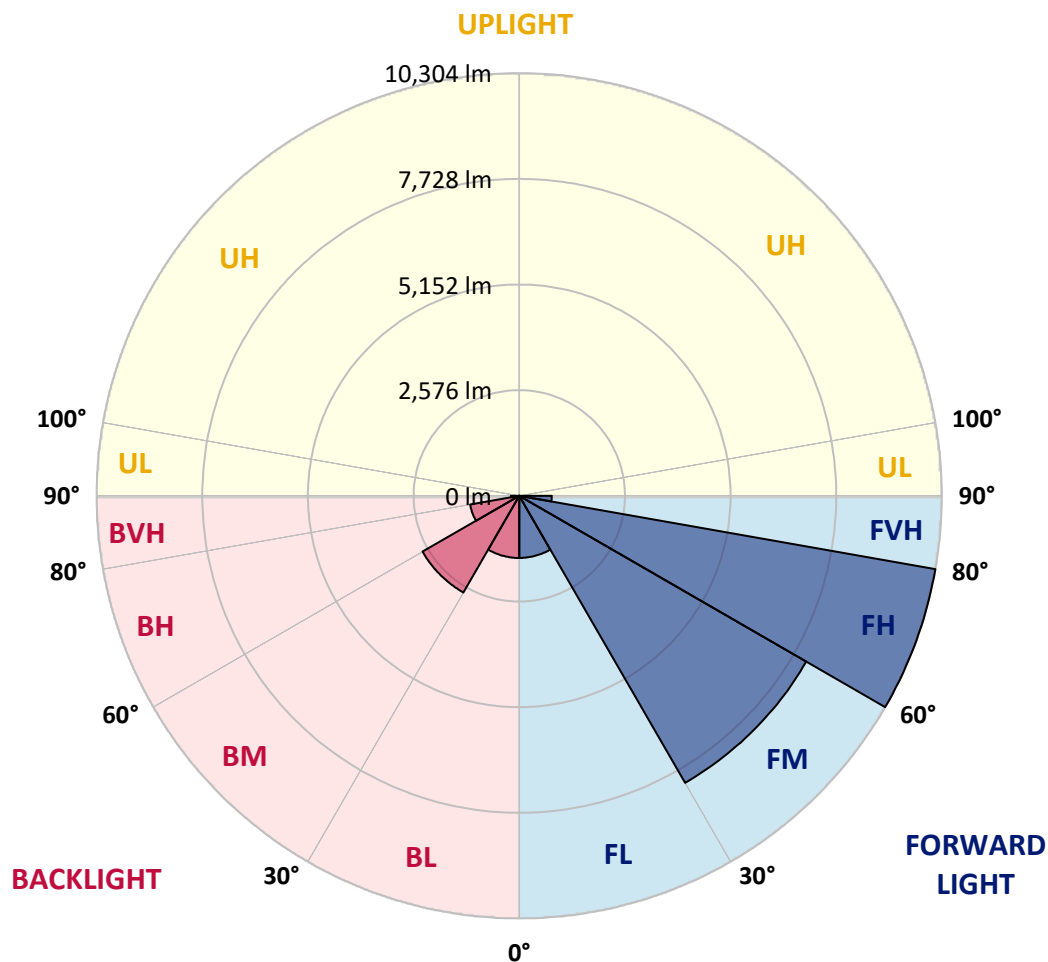
CATALOG NUMBER: GLEON-SA7A-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1513.5	5.7			
FM	(30°-60°)	8081.3	30.7			
FH	(60°-80°)	10304.2	39.1			G4/12000
FVH	(80°-90°)	793.8	3.0			G5
BL	(0°-30°)	1515.5	5.8	B3/2500		
BM	(30°-60°)	2723.2	10.3	B3/5000		
BH	(60°-80°)	1216.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	202.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8
2.5°	3824.8	3810.2	3837.5	3841.2	3864.9	3874.0	3906.7	3957.7	3999.6	4047.8	4091.5
5°	3478.0	3468.0	3506.2	3533.5	3585.4	3607.3	3684.6	3792.9	3889.4	3998.7	4097.9
7.5°	3148.5	3143.0	3185.8	3247.7	3307.8	3337.8	3471.6	3629.1	3790.2	3966.8	4118.8
10°	2870.9	2869.1	2910.0	2971.0	3059.3	3093.0	3265.9	3473.5	3699.2	3942.2	4154.3
12.5°	2715.2	2721.6	2740.7	2791.7	2873.6	2907.3	3099.3	3343.3	3622.7	3934.0	4206.2
15°	2753.5	2763.5	2730.7	2728.9	2787.1	2813.5	2993.8	3250.4	3568.1	3947.7	4281.7
17.5°	2916.4	2918.2	2831.7	2777.1	2812.6	2826.3	2961.0	3197.7	3536.3	3978.6	4376.4
20°	3145.8	3141.2	2988.3	2897.3	2916.4	2920.0	3007.4	3198.6	3533.5	4032.3	4499.3
22.5°	3449.8	3416.1	3210.4	3086.6	3082.1	3076.6	3126.7	3265.9	3573.6	4119.7	4645.8
25°	3846.6	3814.8	3531.7	3362.4	3326.0	3312.3	3319.6	3409.7	3652.8	4213.5	4809.7
27.5°	4288.1	4232.6	3959.5	3720.1	3644.6	3625.5	3581.8	3612.7	3739.2	4303.6	5004.5
30°	4657.7	4627.6	4389.1	4105.2	4016.0	3988.6	3874.0	3840.3	3863.9	4426.5	5250.2
32.5°	4864.3	4844.3	4699.5	4470.2	4387.3	4349.1	4187.1	4119.7	4064.2	4620.3	5583.4
35°	5114.6	5101.9	5014.5	4847.9	4725.0	4685.0	4559.4	4489.3	4346.4	4887.0	6013.9
37.5°	5433.2	5419.5	5421.4	5286.6	5140.1	5102.8	5019.9	4946.2	4712.3	5237.5	6481.8
40°	5793.6	5767.2	5757.2	5750.9	5658.0	5637.1	5593.4	5493.3	5171.0	5656.2	6943.3
42.5°	6336.1	6242.4	6042.1	6117.7	6209.6	6198.7	6234.2	6090.4	5680.8	6151.4	7393.8
45°	6859.5	6705.7	6359.8	6376.2	6577.4	6638.3	6904.1	6802.2	6233.3	6693.9	7859.9
47.5°	7098.0	6981.5	6687.5	6688.4	6887.7	7014.3	7596.8	7524.0	6814.0	7310.1	8428.8
50°	7364.7	7248.2	6984.2	7083.4	7257.3	7392.0	8265.8	8228.5	7366.5	7984.6	9110.5
52.5°	7656.0	7458.5	7291.0	7468.5	7712.4	7869.0	8935.8	8833.8	7873.5	8663.6	9894.2
55°	7659.6	7605.9	7733.3	7863.5	8228.5	8420.6	9637.6	9368.1	8286.8	9330.8	10532.3
57.5°	8095.6	8008.2	8278.6	8338.7	8815.6	9032.3	10335.7	9833.3	8707.3	9842.4	10876.4
60°	8672.7	8598.1	8819.3	8977.6	9542.0	9831.4	11081.2	10311.1	9037.7	10228.3	10860.0
62.5°	9669.4	9584.8	9582.0	9804.1	10564.2	10901.0	11917.7	10779.9	9168.8	10304.8	10396.7
65°	11128.5	10993.8	10739.9	10845.4	11975.9	12311.8	12852.5	11119.4	8995.8	9895.2	9203.4
67.5°	12548.5	12543.9	12231.7	12448.4	13840.1	14109.5	13917.5	11153.1	8456.1	8468.8	7086.2
70°	13963.9	13982.1	13929.3	14683.0	16358.7	16639.1	15051.6	10700.7	7242.7	6115.9	4245.3
72.5°	15085.3	15080.8	15346.5	17289.9	19627.4	19564.6	16007.4	9329.9	5200.2	3301.4	2028.9
75°	14358.9	14200.6	14992.5	18580.6	21532.5	21225.7	15194.5	6508.2	2698.8	1502.8	1092.3
77.5°	9365.4	9515.6	10678.0	15349.3	18834.6	18461.4	11147.6	3036.5	1271.6	985.8	791.9
80°	3391.5	3549.9	4999.9	8694.6	12976.3	12915.3	5489.6	1247.9	860.2	744.6	577.1
82.5°	1166.9	1225.2	1972.5	3861.2	7326.5	7599.5	2065.3	709.1	625.3	527.9	395.0
85°	457.8	524.3	902.0	1857.8	3695.6	3722.9	836.5	424.2	435.1	345.9	216.6
87.5°	173.9	211.2	431.5	862.9	1687.6	1550.1	299.5	202.1	247.6	205.7	102.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8	4118.8
2.5°	4125.2	4144.3	4184.3	4211.7	4240.8	4249.0	4252.6	4259.9	4267.2	4264.4	4265.4
5°	4150.7	4188.0	4252.6	4279.9	4292.7	4278.1	4249.9	4227.1	4210.7	4201.6	4198.9
7.5°	4192.5	4245.3	4314.5	4310.0	4280.8	4216.2	4143.4	4088.8	4043.3	4026.9	4017.8
10°	4248.1	4310.0	4358.2	4306.3	4221.7	4109.7	4000.5	3915.8	3847.6	3821.2	3816.6
12.5°	4319.1	4381.9	4391.0	4280.8	4140.7	3987.7	3839.4	3727.4	3625.5	3592.7	3585.4
15°	4411.0	4470.2	4413.7	4236.2	4040.5	3834.8	3642.8	3490.7	3383.3	3343.3	3328.7
17.5°	4507.5	4563.9	4418.3	4162.5	3909.5	3653.7	3412.5	3256.8	3133.9	3087.5	3082.1
20°	4623.1	4648.6	4399.2	4056.9	3729.2	3418.8	3164.9	3018.3	2952.8	2920.0	2916.4
22.5°	4766.0	4738.7	4355.5	3914.0	3500.8	3147.6	2941.0	2872.7	2856.3	2849.0	2851.8
25°	4917.1	4833.3	4290.8	3727.4	3212.2	2876.3	2777.1	2796.2	2818.1	2815.4	2815.4
27.5°	5083.7	4929.8	4191.6	3479.8	2892.7	2654.2	2666.1	2736.2	2768.9	2768.0	2767.1
30°	5297.6	5039.1	4065.1	3182.2	2594.2	2497.7	2569.6	2655.2	2699.8	2697.9	2698.8
32.5°	5560.6	5159.2	3893.1	2849.9	2378.4	2382.1	2464.9	2549.6	2601.4	2596.9	2597.8
35°	5868.3	5293.9	3660.1	2522.3	2235.5	2290.1	2355.7	2414.9	2464.0	2457.6	2451.3
37.5°	6203.2	5425.9	3350.6	2229.2	2119.0	2204.6	2259.2	2269.2	2292.0	2275.6	2263.8
40°	6521.8	5526.9	2951.9	1988.9	2001.6	2131.8	2167.3	2127.2	2086.3	2080.8	2064.4
42.5°	6799.4	5560.6	2548.7	1796.8	1877.8	2055.3	2077.2	1993.4	1919.7	1885.1	1870.5
45°	7092.5	5572.5	2172.7	1635.7	1758.6	1987.0	2010.7	1898.7	1795.0	1720.3	1695.8
47.5°	7475.8	5658.0	1880.5	1516.4	1667.5	1941.5	1975.2	1823.2	1688.5	1582.0	1559.2
50°	7977.3	5827.3	1643.0	1425.4	1608.4	1911.5	1949.7	1749.5	1601.1	1472.8	1450.0
52.5°	8534.4	5983.0	1450.9	1351.7	1551.0	1858.7	1917.0	1696.7	1519.2	1371.7	1347.1
55°	8923.9	5863.7	1296.2	1275.2	1476.4	1783.1	1871.4	1652.1	1401.8	1273.4	1251.6
57.5°	8998.6	5455.9	1178.8	1196.0	1386.3	1688.5	1801.4	1552.9	1338.0	1230.6	1207.9
60°	8794.7	4888.0	1091.4	1123.2	1289.8	1569.2	1670.3	1482.8	1277.1	1185.1	1166.0
62.5°	8282.2	4306.3	1026.7	1057.7	1199.7	1448.2	1588.4	1409.0	1215.2	1133.2	1114.1
65°	7247.3	3615.4	964.8	999.4	1115.9	1343.5	1514.6	1340.8	1154.2	1091.4	1073.2
67.5°	5470.5	2707.9	906.6	937.5	1041.3	1252.5	1434.5	1273.4	1095.0	1055.0	1033.1
70°	3221.3	1695.8	840.1	872.9	963.0	1157.8	1349.0	1199.7	1021.3	1003.1	974.9
72.5°	1499.2	1020.4	764.6	796.5	864.7	1031.3	1238.8	1103.2	933.9	893.8	855.6
75°	894.8	746.4	675.4	703.6	751.9	896.6	1100.5	1004.9	851.1	798.3	758.2
77.5°	669.0	570.7	577.1	607.1	646.3	784.6	974.9	927.5	787.4	746.4	719.1
80°	481.5	433.3	470.6	503.4	544.3	713.6	933.9	857.4	711.8	657.2	631.7
82.5°	321.3	311.3	354.1	387.8	427.8	624.4	877.5	750.9	608.0	538.9	482.4
85°	177.5	187.5	238.5	253.0	287.6	439.6	719.1	603.5	457.8	368.6	352.3
87.5°	73.7	86.5	128.3	123.8	152.9	262.1	473.3	364.1	291.3	217.5	169.3
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)