

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: P319834

Luminaire Tested: **GLEON-SA0A-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36657 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

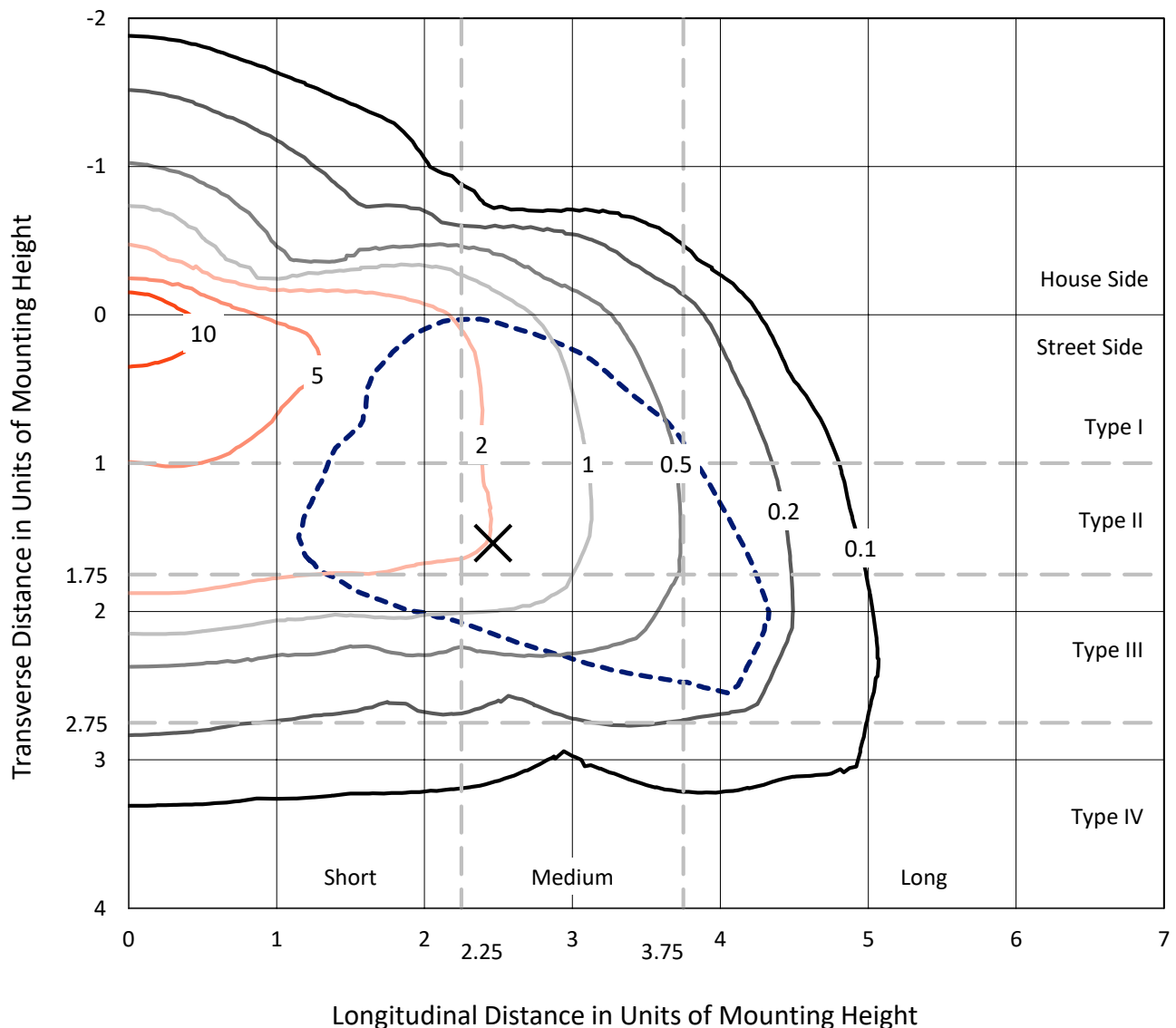
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319834
 CATALOG NUMBER: GLEON-SA0A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

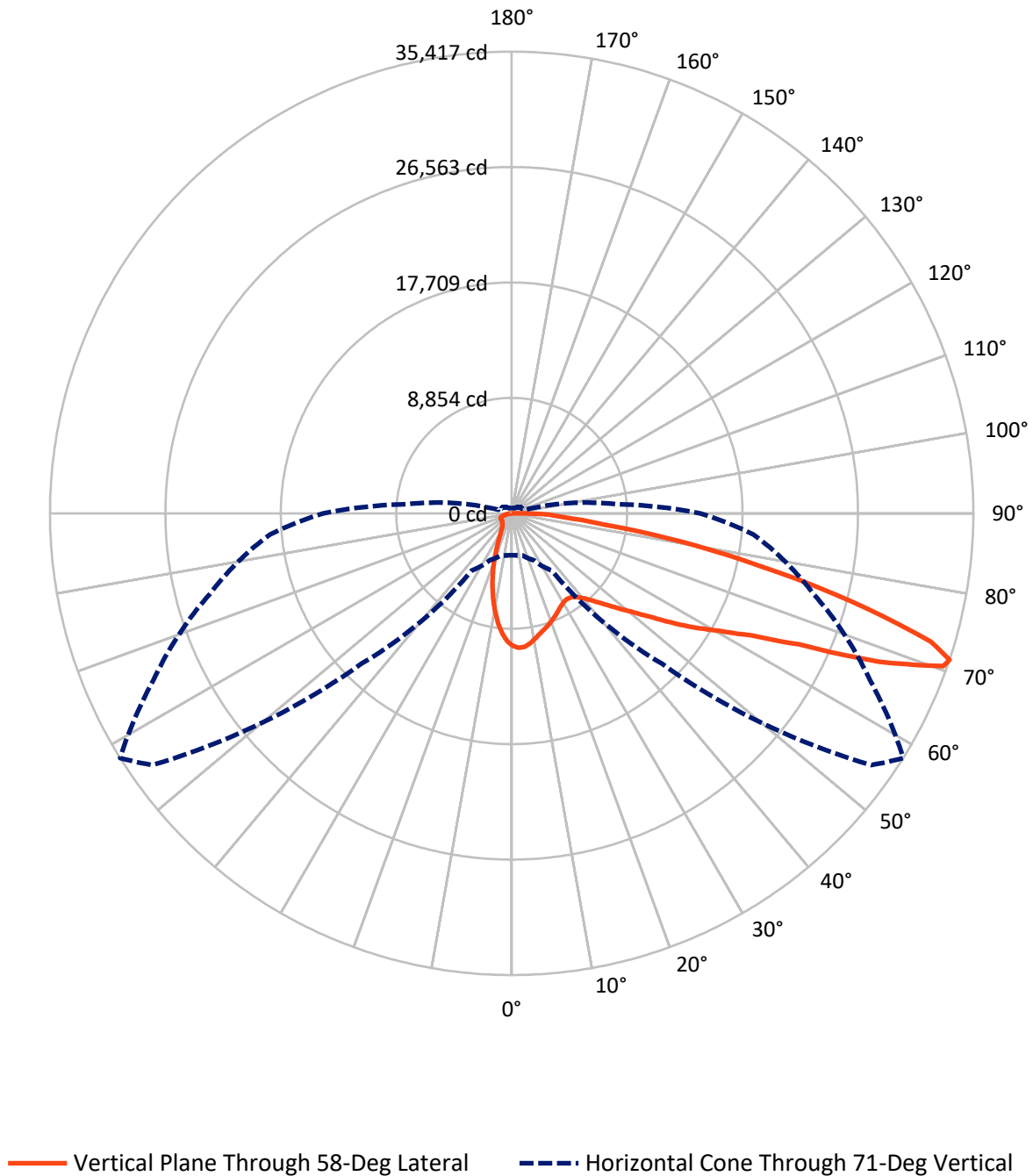
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P319834
CATALOG NUMBER: GLEON-SA0A-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319834

CATALOG NUMBER: GLEON-SA0A-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5480.5	0.0	5480.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31176.5	0.0	31176.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	36657.0	0.0	36657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.2	2.4
10°-20°	1948.3	5.3
20°-30°	2476.1	6.8
30°-40°	3154.1	8.6
40°-50°	4472.6	12.2
50°-60°	6921.6	18.9
60°-70°	9422.9	25.7
70°-80°	6286.1	17.1
80°-90°	1099.0	3.0
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°	36657.0	100.0
0°-180°	36657.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319834

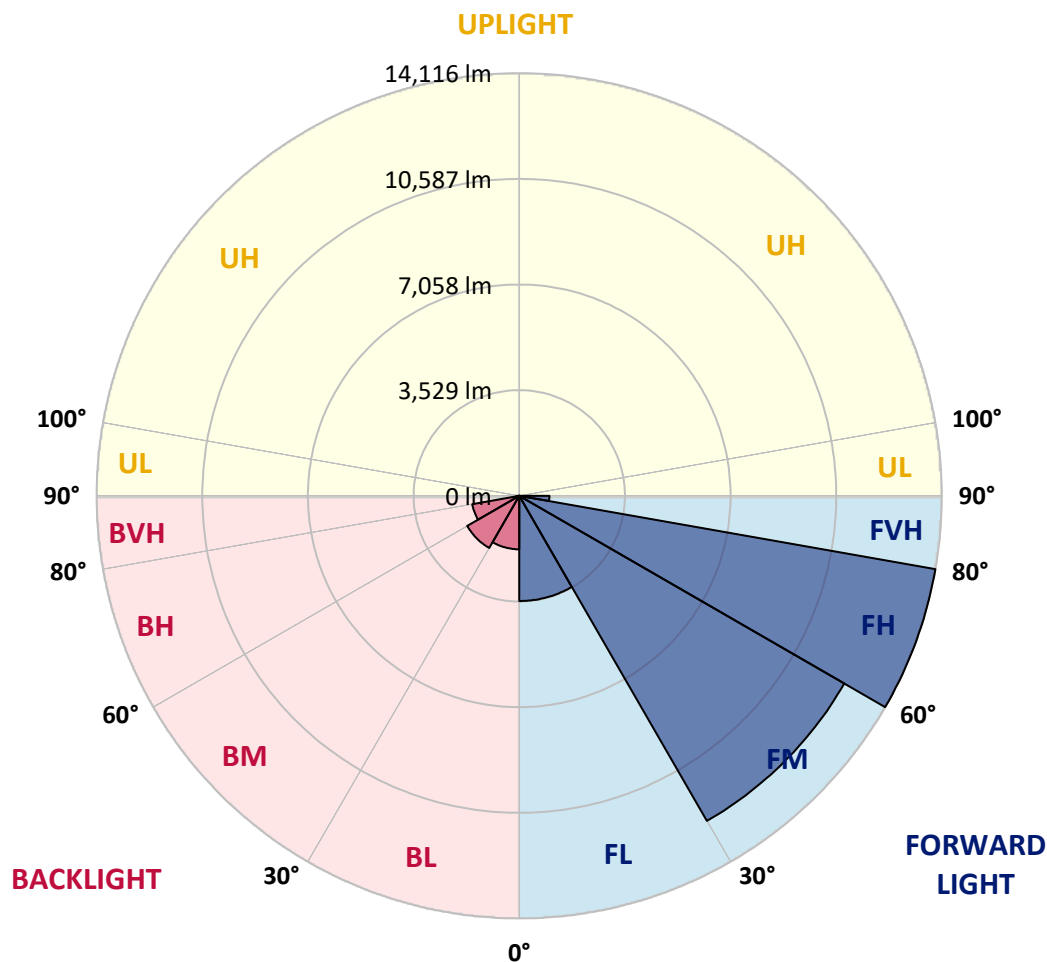
CATALOG NUMBER: GLEON-SA0A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3514.2	9.6			
FM	(30°-60°)	12538.5	34.2			
FH	(60°-80°)	14116.2	38.5			G5
FVH	(80°-90°)	1007.7	2.7			G5
BL	(0°-30°)	1786.5	4.9	B3/2500		
BM	(30°-60°)	2009.8	5.5	B2/2500		
BH	(60°-80°)	1592.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	91.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P319834

CATALOG NUMBER: GLEON-SA0A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4
2.5°	10425.9	10411.8	10416.9	10406.7	10382.5	10358.2	10322.4	10328.8	10279.0	10205.0	10113.0
5°	10229.2	10224.1	10262.4	10284.1	10302.0	10288.0	10277.7	10290.5	10217.7	10115.6	9956.0
7.5°	9816.8	9760.6	9809.1	9881.9	9950.9	10003.2	10072.2	10081.1	10035.1	9927.9	9718.5
10°	9230.7	9177.1	9248.6	9362.2	9500.1	9625.3	9764.4	9790.0	9798.9	9701.9	9447.8
12.5°	8622.9	8582.0	8653.5	8813.1	9041.7	9234.5	9456.7	9495.0	9574.2	9509.1	9197.5
15°	8078.9	8063.6	8150.4	8307.5	8570.5	8865.5	9186.0	9256.2	9390.3	9368.6	9002.1
17.5°	7609.0	7605.2	7671.6	7836.3	8127.5	8500.3	8916.6	9035.3	9234.5	9260.1	8841.2
20°	7259.2	7251.5	7297.5	7418.8	7718.8	8141.5	8625.4	8788.9	9076.2	9165.6	8675.2
22.5°	7071.5	7070.2	7071.5	7128.9	7374.1	7767.4	8342.0	8541.2	8921.7	9090.2	8491.4
25°	7039.5	7035.7	7007.6	7001.2	7140.4	7454.5	8061.1	8280.7	8774.8	9037.9	8316.4
27.5°	7122.5	7127.6	7090.6	7030.6	7058.7	7248.9	7817.2	8052.1	8657.4	9027.7	8195.1
30°	7294.9	7292.4	7260.4	7197.9	7143.0	7172.3	7643.5	7878.5	8578.2	9072.4	8112.1
32.5°	7485.2	7499.2	7492.8	7458.4	7376.6	7259.2	7591.2	7821.0	8555.2	9179.6	8076.4
35°	7713.7	7729.1	7775.0	7801.8	7706.1	7517.1	7703.5	7902.7	8621.6	9381.4	8133.8
37.5°	7930.8	7970.4	8099.4	8213.0	8131.3	7920.6	8002.3	8144.0	8827.2	9699.3	8288.3
40°	8181.1	8215.6	8426.2	8667.6	8654.8	8436.5	8483.7	8578.2	9189.8	10155.2	8568.0
42.5°	8427.5	8496.5	8801.7	9143.9	9242.2	9049.4	9124.7	9174.5	9700.6	10759.1	9055.8
45°	8755.7	8829.7	9253.7	9666.1	9896.0	9787.4	9907.4	9926.6	10342.9	11581.5	9764.4
47.5°	9252.4	9336.7	9830.8	10263.7	10614.8	10626.3	10824.3	10816.6	11144.8	12522.5	10657.0
50°	10026.2	10147.5	10552.3	10957.1	11383.5	11621.0	11885.4	11848.3	12106.3	13524.9	11684.9
52.5°	11040.1	11096.2	11396.3	11695.1	12225.0	12757.5	13136.7	13103.5	13196.7	14555.4	12852.0
55°	12090.9	12133.1	12256.9	12420.4	13132.9	14001.2	14803.1	14750.7	14514.5	15625.4	14005.0
57.5°	13035.8	13121.4	13206.9	13274.6	14047.1	15301.1	16507.7	16511.6	15944.6	16779.7	15196.4
60°	13182.7	13258.0	13823.7	14357.4	15611.3	17035.1	18332.4	18294.1	17424.5	18032.3	16524.3
62.5°	11653.0	11822.8	12767.7	14187.6	17118.1	20206.9	20660.2	20612.9	19194.3	19576.1	18070.6
65°	8350.9	8543.7	9684.0	11817.7	16387.7	23701.8	24861.2	24225.3	21607.7	21474.9	19881.3
67.5°	4817.7	4863.7	5357.9	7071.5	12477.8	23884.4	31269.9	30379.9	25355.3	23629.0	20767.5
70°	3562.5	3561.3	3678.7	4351.7	6752.2	19493.1	34317.9	35115.9	29301.0	24337.7	19514.8
71°	3221.6	3225.4	3357.0	3960.9	5347.6	16316.2	33670.5	35417.3	30340.4	23987.8	18608.2
72.5°	2755.5	2768.3	2950.9	3552.3	4498.5	11252.0	30881.8	33609.2	30833.2	23124.6	17189.6
75°	2090.3	2119.6	2372.5	2994.3	4111.6	5706.5	22664.9	26837.8	27390.7	20404.8	12772.8
77.5°	1491.4	1524.6	1810.6	2518.0	3908.6	4300.6	15178.5	19576.1	20157.1	13076.7	5761.4
80°	942.4	981.9	1197.7	2003.5	3672.4	4083.5	9538.4	13158.4	10991.5	4184.4	1465.9
82.5°	552.9	583.5	743.2	1308.8	2999.4	3932.8	5612.0	7293.6	4277.6	1264.1	666.5
85°	320.5	334.5	463.5	833.8	2178.4	3711.9	4123.1	4077.1	1856.6	618.0	315.4
87.5°	149.4	166.0	274.5	435.4	1209.2	2690.4	3258.6	2815.6	1154.3	289.9	148.1
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: P319834

CATALOG NUMBER: GLEON-SA0A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4	10156.4
2.5°	10068.3	10046.6	9956.0	9875.5	9791.2	9681.4	9560.1	9544.8	9470.7	9484.8	9459.3
5°	9869.1	9814.2	9595.9	9398.0	9164.3	8954.9	8727.6	8622.9	8472.2	8462.0	8423.7
7.5°	9584.4	9482.2	9143.9	8768.5	8393.0	8035.5	7681.8	7449.4	7211.9	7111.0	7102.1
10°	9263.9	9090.2	8592.2	8036.8	7495.4	6973.1	6467.5	6093.4	5756.3	5596.6	5590.3
12.5°	8960.0	8703.3	8020.2	7264.3	6523.7	5846.9	5153.6	4662.0	4239.3	4097.6	4037.5
15°	8702.1	8340.7	7463.5	6496.9	5597.9	4658.1	3869.0	3351.9	2961.1	2825.8	2800.2
17.5°	8451.8	7987.0	6892.7	5721.8	4635.1	3602.1	2811.7	2427.4	2219.2	2164.3	2163.1
20°	8202.8	7623.1	6296.4	4928.8	3704.3	2694.3	2161.8	1989.4	1919.2	1912.8	1902.6
22.5°	7920.6	7237.5	5669.4	4133.3	2890.9	2118.4	1837.5	1768.5	1759.6	1782.5	1782.5
25°	7656.3	6854.4	5033.5	3354.4	2248.6	1767.2	1640.8	1626.8	1651.0	1691.9	1695.7
27.5°	7409.8	6485.4	4413.0	2662.3	1801.7	1556.5	1504.2	1520.8	1564.2	1611.4	1612.7
30°	7206.8	6136.8	3810.3	2097.9	1522.1	1399.5	1390.5	1423.7	1471.0	1508.0	1517.0
32.5°	7049.7	5839.3	3228.0	1686.8	1339.5	1282.0	1289.7	1317.8	1347.1	1367.6	1381.6
35°	6977.0	5583.9	2690.4	1422.5	1223.3	1191.3	1201.6	1216.9	1229.7	1245.0	1256.5
37.5°	6989.7	5386.0	2210.3	1257.7	1145.4	1128.8	1128.8	1128.8	1128.8	1136.4	1137.7
40°	7108.5	5272.3	1819.6	1153.0	1093.0	1075.1	1061.1	1048.3	1038.1	1043.2	1040.7
42.5°	7412.4	5262.1	1533.6	1086.6	1050.9	1021.5	993.4	975.5	962.8	967.9	970.4
45°	7928.3	5389.8	1340.7	1039.4	1011.3	966.6	930.9	911.7	902.8	919.4	921.9
47.5°	8596.1	5668.1	1223.3	1004.9	974.3	915.5	877.2	859.4	861.9	886.2	892.6
50°	9456.7	6120.2	1167.1	983.2	948.7	872.1	832.5	817.2	824.9	859.4	867.0
52.5°	10401.6	6771.4	1173.5	976.8	932.1	840.2	798.1	780.2	793.0	824.9	831.3
55°	11492.1	7554.1	1279.5	985.8	907.9	819.8	770.0	739.3	749.5	778.9	784.0
57.5°	12703.8	8450.5	1492.7	983.2	877.2	800.6	740.6	694.6	702.3	720.2	725.3
60°	13965.4	9533.3	1823.4	990.9	863.2	777.6	701.0	643.6	641.0	656.3	658.9
62.5°	15479.8	10785.9	2201.4	996.0	872.1	748.3	648.7	592.5	584.8	588.6	591.2
65°	17040.2	11692.5	2059.6	975.5	900.2	724.0	602.7	542.7	528.6	526.1	527.4
67.5°	17088.7	10720.8	1444.2	934.7	911.7	711.2	568.2	500.5	477.6	468.6	467.3
70°	15325.3	8709.7	1124.9	891.3	865.7	690.8	536.3	466.1	431.6	417.5	416.3
71°	14464.7	8017.6	1066.2	869.6	831.3	670.4	522.3	450.7	415.0	399.7	397.1
72.5°	13115.0	7187.7	994.7	835.1	764.9	618.0	495.4	429.0	392.0	374.1	370.3
75°	9412.0	4700.3	854.2	744.4	633.3	492.9	434.1	385.6	353.7	332.0	329.4
77.5°	3626.4	1870.7	646.1	619.3	485.2	385.6	357.5	333.3	310.3	288.6	287.3
80°	1121.1	836.4	471.2	466.1	351.1	287.3	278.4	272.0	263.0	240.1	234.9
82.5°	598.9	480.1	324.3	301.3	229.8	191.5	201.7	204.3	205.6	181.3	178.8
85°	286.0	254.1	182.6	171.1	134.1	107.3	123.9	134.1	135.4	111.1	103.4
87.5°	136.6	132.8	85.6	65.1	49.8	35.8	43.4	53.6	58.7	42.1	37.0
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
 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

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 $\text{W}^\wedge/\text{nm}$	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

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)