

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P321447

Luminaire Tested: **GLEON-SA3C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13851 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

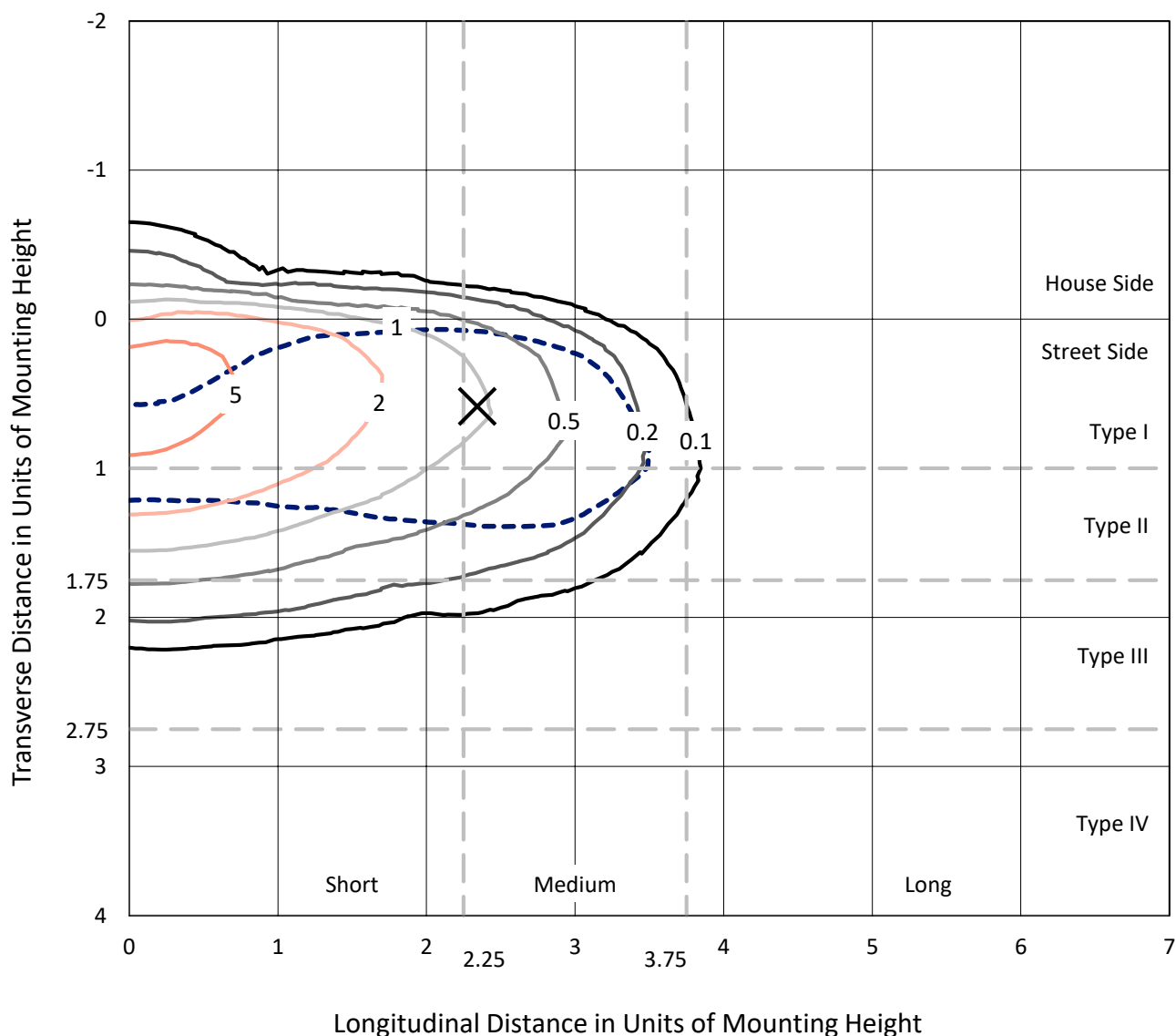
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321447
 CATALOG NUMBER: GLEON-SA3C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

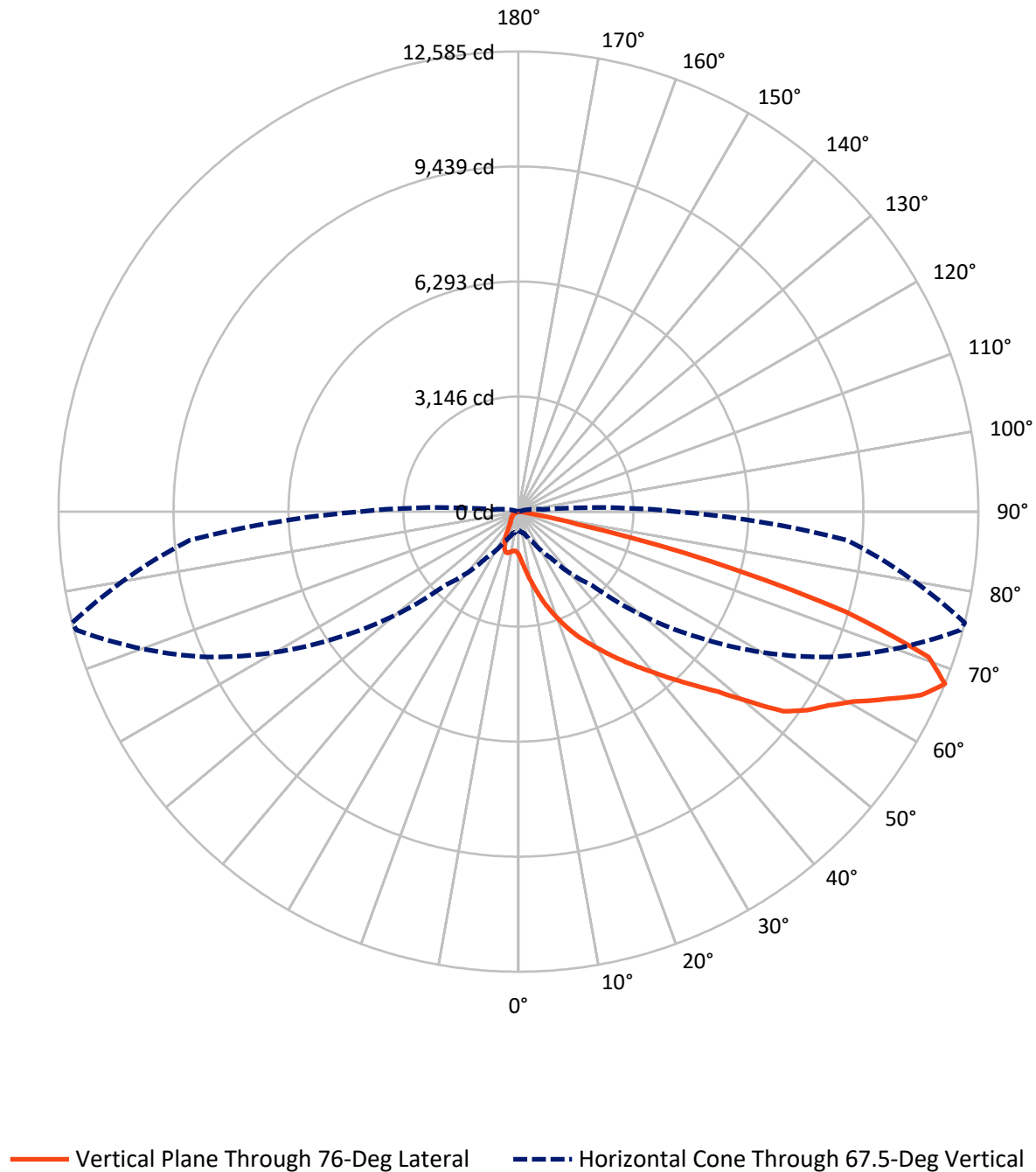
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P321447
CATALOG NUMBER: GLEON-SA3C-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321447
 CATALOG NUMBER: GLEON-SA3C-830-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.8	0.0	687.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13163.2	0.0	13163.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	13851.0	0.0	13851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	1.1
10°-20°	579.2	4.2
20°-30°	1178.4	8.5
30°-40°	2045.4	14.8
40°-50°	2889.9	20.9
50°-60°	3277.3	23.7
60°-70°	2718.2	19.6
70°-80°	984.6	7.1
80°-90°	31.9	0.2
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°	13851.0	100.0
0°-180°	13851.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321447

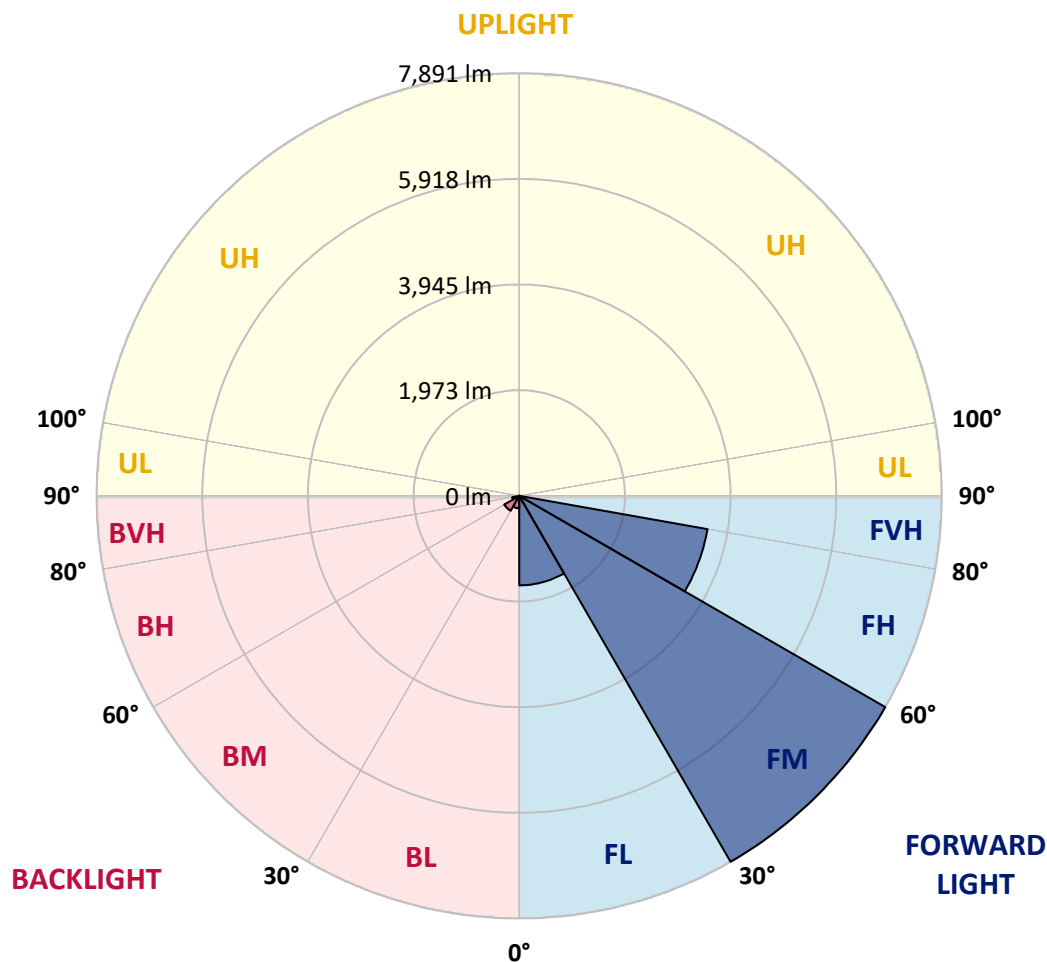
CATALOG NUMBER: GLEON-SA3C-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1671.8	12.1			
FM	(30°-60°)	7890.6	57.0			
FH	(60°-80°)	3569.9	25.8			G2/5000
FVH	(80°-90°)	30.9	0.2			G1/100
BL	(0°-30°)	232.0	1.7	B1/500		
BM	(30°-60°)	321.9	2.3	B1/1000		
BH	(60°-80°)	132.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	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 II Medium





REPORT NUMBER: P321447

CATALOG NUMBER: GLEON-SA3C-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0
2.5°	1754.0	1714.5	1723.6	1698.1	1652.0	1557.3	1476.6	1400.1	1310.9	1307.9	1234.4
5°	2365.1	2331.7	2327.5	2275.9	2192.1	2031.3	1874.7	1696.3	1497.2	1482.7	1326.7
7.5°	2919.8	2893.1	2883.4	2822.1	2666.1	2509.5	2305.6	2043.4	1732.1	1705.4	1451.1
10°	3345.9	3333.1	3335.5	3291.8	3158.3	3012.7	2745.0	2410.6	1998.5	1957.3	1600.4
12.5°	3668.7	3671.8	3693.6	3666.9	3592.3	3484.2	3198.4	2802.1	2293.5	2237.0	1770.9
15°	3906.0	3921.2	3961.3	3994.6	3989.2	3895.7	3633.5	3199.6	2606.7	2544.1	1960.9
17.5°	4059.6	4076.6	4134.8	4208.9	4276.9	4255.0	4053.5	3583.2	2923.5	2851.2	2164.2
20°	4194.3	4214.3	4276.9	4374.6	4501.4	4528.7	4396.4	3955.2	3239.7	3151.7	2374.2
22.5°	4486.2	4485.6	4523.9	4580.9	4701.7	4772.1	4688.3	4300.5	3552.2	3460.6	2588.4
25°	5014.2	4994.2	4980.9	4935.9	4962.7	5006.4	4959.6	4623.4	3866.6	3773.7	2805.7
27.5°	5641.8	5653.9	5545.9	5425.1	5331.7	5286.7	5210.3	4922.6	4168.8	4066.9	3018.1
30°	6303.9	6307.6	6180.1	6025.9	5820.2	5649.7	5517.4	5208.4	4479.6	4368.5	3224.5
32.5°	6901.1	6877.4	6751.2	6541.2	6281.5	6089.7	5814.7	5527.7	4808.5	4701.1	3453.9
35°	7374.5	7346.6	7193.0	7001.9	6732.4	6539.4	6208.6	5846.3	5154.4	5049.4	3683.9
37.5°	7720.4	7687.7	7529.9	7333.2	7100.8	6988.5	6665.6	6192.8	5531.9	5419.0	3926.1
40°	7840.6	7812.1	7713.1	7569.3	7382.4	7356.9	7150.5	6591.6	5942.8	5822.6	4200.4
42.5°	7769.0	7741.1	7705.9	7657.3	7579.6	7603.9	7608.1	7046.2	6399.2	6280.8	4503.2
45°	7484.9	7460.1	7496.5	7567.5	7664.0	7784.1	8025.7	7534.7	6909.0	6782.8	4853.4
47.5°	7066.8	7048.6	7149.3	7326.5	7608.8	7940.1	8407.4	8048.2	7481.3	7364.2	5290.4
50°	6472.0	6469.0	6670.5	6994.0	7427.9	8015.4	8801.9	8632.0	8276.3	8153.1	5897.9
52.5°	5545.9	5552.0	5948.3	6466.0	7110.5	7964.4	9055.6	9382.1	9201.3	9073.2	6424.1
55°	4664.1	4700.5	4981.5	5728.0	6623.7	7775.0	9143.0	9732.3	9711.7	9590.3	6716.6
57.5°	3800.4	3866.6	4137.3	4834.6	5913.1	7338.7	9095.1	9884.0	10091.6	9998.7	7102.6
60°	2864.6	2894.9	3206.9	3858.7	5000.9	6542.4	8747.3	9966.6	10611.1	10546.8	7662.8
62.5°	1822.5	1898.4	2175.1	2803.9	3893.9	5436.6	8161.0	9965.4	11261.1	11296.3	8385.6
65°	960.1	1048.7	1195.6	1737.6	2675.8	4201.6	7279.2	9871.9	12058.6	12107.7	8950.6
67.5°	517.7	543.2	620.9	901.9	1551.9	2846.4	5983.5	9410.7	12520.4	12585.4	9029.5
70°	378.7	392.7	421.8	498.9	781.1	1653.2	4366.1	8365.0	11925.1	11900.8	8022.7
72.5°	290.7	312.6	334.4	365.4	449.1	882.4	2718.3	6550.3	9515.0	9354.8	5996.8
75°	229.4	233.1	264.0	291.9	336.8	502.5	1207.1	3815.0	5807.5	5428.1	3109.8
77.5°	183.3	185.7	203.9	228.2	270.7	330.2	373.9	1500.9	1854.1	1654.4	674.9
80°	108.6	114.7	151.7	176.0	224.6	208.2	136.6	325.9	289.5	262.2	113.5
82.5°	60.7	65.5	85.6	139.0	156.6	99.5	68.0	88.0	68.0	66.2	32.2
85°	0.0	3.0	55.2	86.2	63.7	21.8	28.5	29.1	20.0	18.8	12.7
87.5°	0.0	0.0	17.0	16.4	2.4	3.6	6.7	9.7	7.9	7.9	6.7
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: P321447

CATALOG NUMBER: GLEON-SA3C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0
2.5°	1198.0	1165.3	1103.4	1042.7	991.7	949.8	912.2	897.0	884.9	883.0	873.3
5°	1251.4	1185.3	1066.9	969.8	904.9	858.8	819.3	795.0	776.2	768.9	762.3
7.5°	1332.2	1232.0	1062.1	950.4	872.7	795.0	722.2	643.3	594.2	575.3	564.4
10°	1430.5	1293.9	1080.3	944.9	809.0	645.1	524.4	424.2	383.6	370.2	366.6
12.5°	1545.2	1371.0	1111.8	911.0	673.1	458.2	361.7	327.7	318.6	314.4	314.4
15°	1676.9	1455.4	1134.3	812.6	497.7	346.5	313.2	297.4	287.7	282.2	282.8
17.5°	1811.6	1537.9	1123.4	670.0	367.2	308.3	283.4	266.4	253.1	247.6	246.4
20°	1947.6	1614.4	1062.7	498.9	310.7	279.8	251.9	233.1	219.7	214.2	213.0
22.5°	2088.4	1679.3	955.9	366.0	279.2	248.2	220.9	202.1	189.4	184.5	182.1
25°	2225.5	1732.1	806.6	296.2	249.4	218.5	192.4	174.8	163.3	158.4	157.8
27.5°	2353.6	1765.5	633.6	261.6	223.3	191.8	168.1	152.3	142.6	139.0	138.4
30°	2468.9	1768.5	468.5	236.1	200.3	168.7	146.9	132.9	124.4	120.8	119.6
32.5°	2585.4	1743.0	341.1	213.0	179.0	148.7	127.4	116.5	110.5	107.4	107.4
35°	2695.3	1684.2	265.8	193.0	158.4	129.3	112.3	104.4	100.7	97.7	97.7
37.5°	2802.7	1599.8	225.8	175.4	139.0	112.9	98.9	94.1	91.0	88.0	88.0
40°	2911.9	1493.6	205.1	159.0	123.2	100.1	88.0	83.8	80.7	78.3	77.7
42.5°	3046.1	1371.0	191.8	143.8	109.2	88.6	77.7	72.8	70.4	68.0	66.8
45°	3201.4	1265.4	180.9	128.7	97.7	78.9	67.4	62.5	58.9	55.8	55.2
47.5°	3425.4	1188.9	166.3	112.3	86.8	68.6	58.3	52.8	47.3	44.3	43.7
50°	3711.2	1125.8	147.5	97.7	75.9	58.3	48.6	41.9	37.0	34.0	34.0
52.5°	3853.2	1043.3	130.5	85.0	63.7	49.2	39.4	31.6	29.1	26.1	26.1
55°	3910.3	980.1	113.5	72.2	52.8	40.7	31.0	24.3	22.5	20.6	20.0
57.5°	4070.5	961.9	98.9	61.3	43.7	32.2	23.7	18.2	17.0	14.6	14.6
60°	4328.4	971.0	85.6	52.2	35.2	24.9	17.6	14.0	12.7	10.3	10.3
62.5°	4607.0	959.5	72.2	44.9	27.3	18.2	12.1	10.3	10.3	6.1	5.5
65°	4660.4	854.5	61.9	37.0	21.2	13.4	7.9	6.7	9.1	1.2	0.0
67.5°	4325.4	662.7	53.4	28.5	15.8	10.3	6.1	3.0	7.9	0.0	0.0
70°	3458.7	421.2	43.1	20.6	12.1	8.5	4.9	1.2	6.1	0.0	0.0
72.5°	2445.8	244.6	34.0	14.6	10.3	6.7	3.6	0.0	3.6	0.0	0.0
75°	1236.9	130.5	21.2	10.9	7.9	4.9	2.4	0.0	0.6	0.0	0.0
77.5°	267.6	60.7	13.4	7.9	5.5	3.0	1.2	0.0	0.0	0.0	0.0
80°	58.3	26.7	8.5	4.9	3.0	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.2	14.0	4.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	7.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.4	0.6	0.6	0.0	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

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 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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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

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

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)