

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: P319211

Luminaire Tested: **GLEON-SA7C-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39479 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

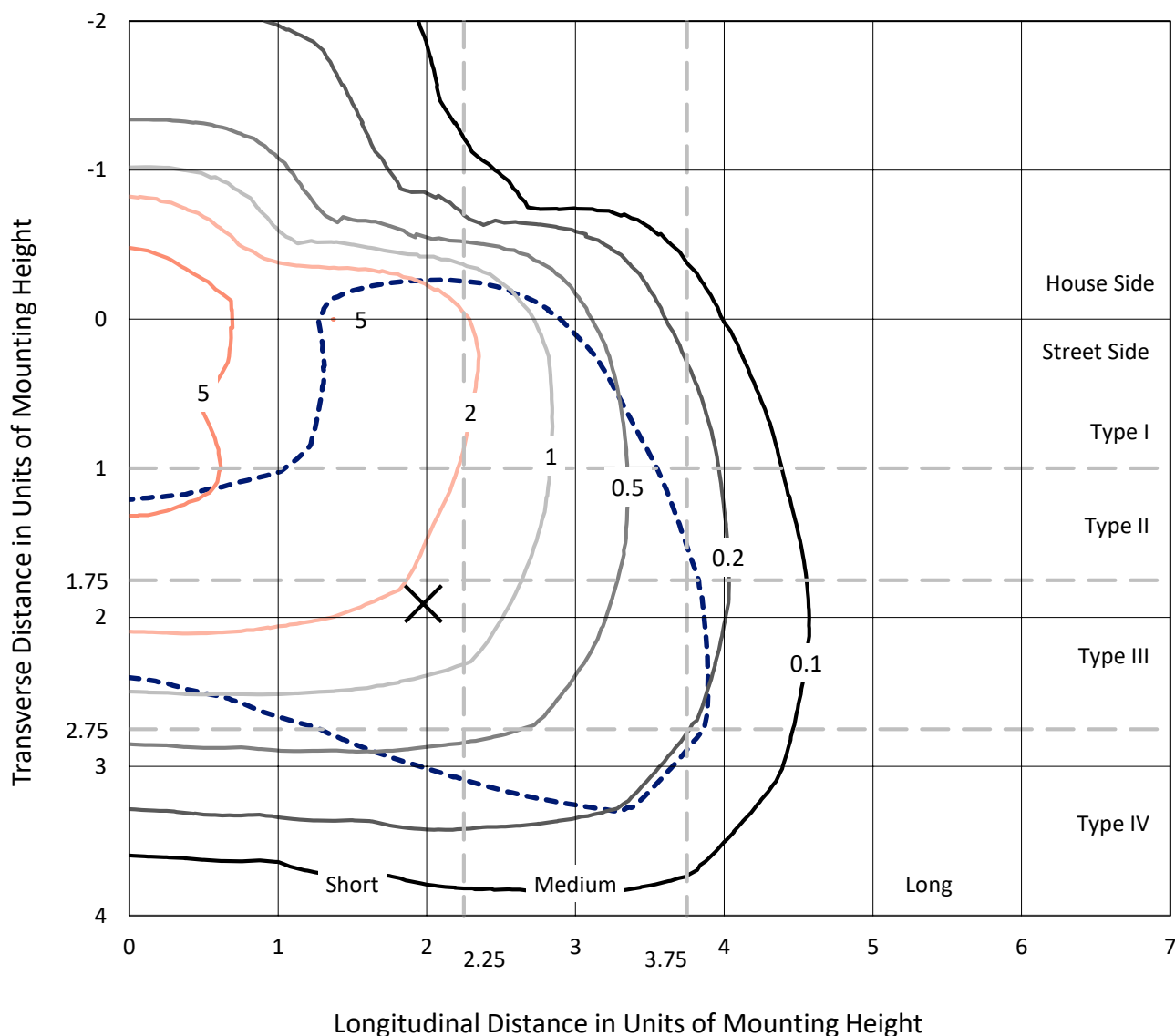
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319211
 CATALOG NUMBER: GLEON-SA7C-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

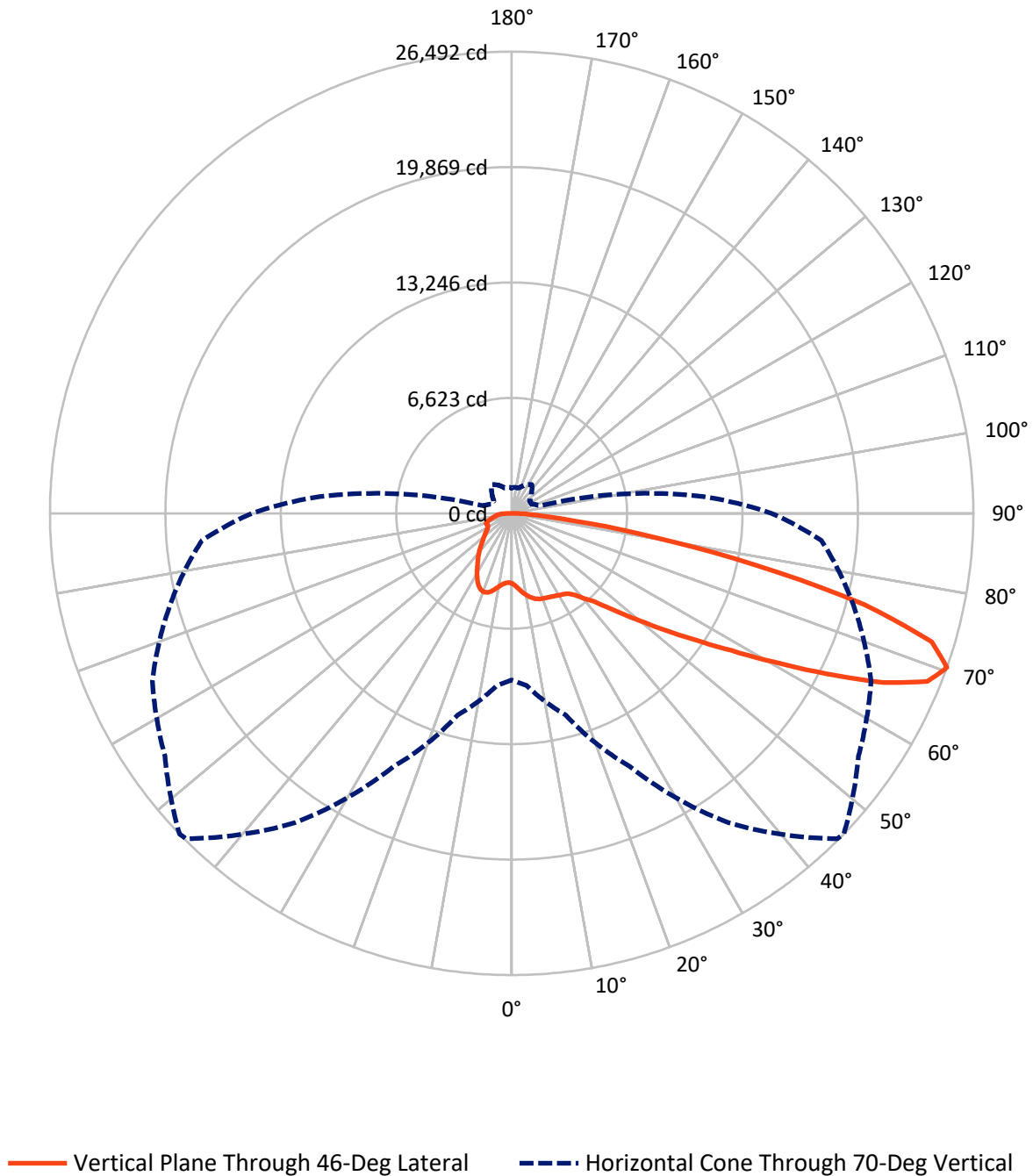
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P319211
CATALOG NUMBER: GLEON-SA7C-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P319211

CATALOG NUMBER: GLEON-SA7C-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9048.5	0.0	9048.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	30430.5	0.0	30430.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	39479.0	0.0	39479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	1.0
10°-20°	1366.1	3.5
20°-30°	2277.8	5.8
30°-40°	3232.3	8.2
40°-50°	4754.6	12.0
50°-60°	8051.9	20.4
60°-70°	11429.5	29.0
70°-80°	6943.5	17.6
80°-90°	1013.3	2.6
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°	39479.0	100.0
0°-180°	39479.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319211

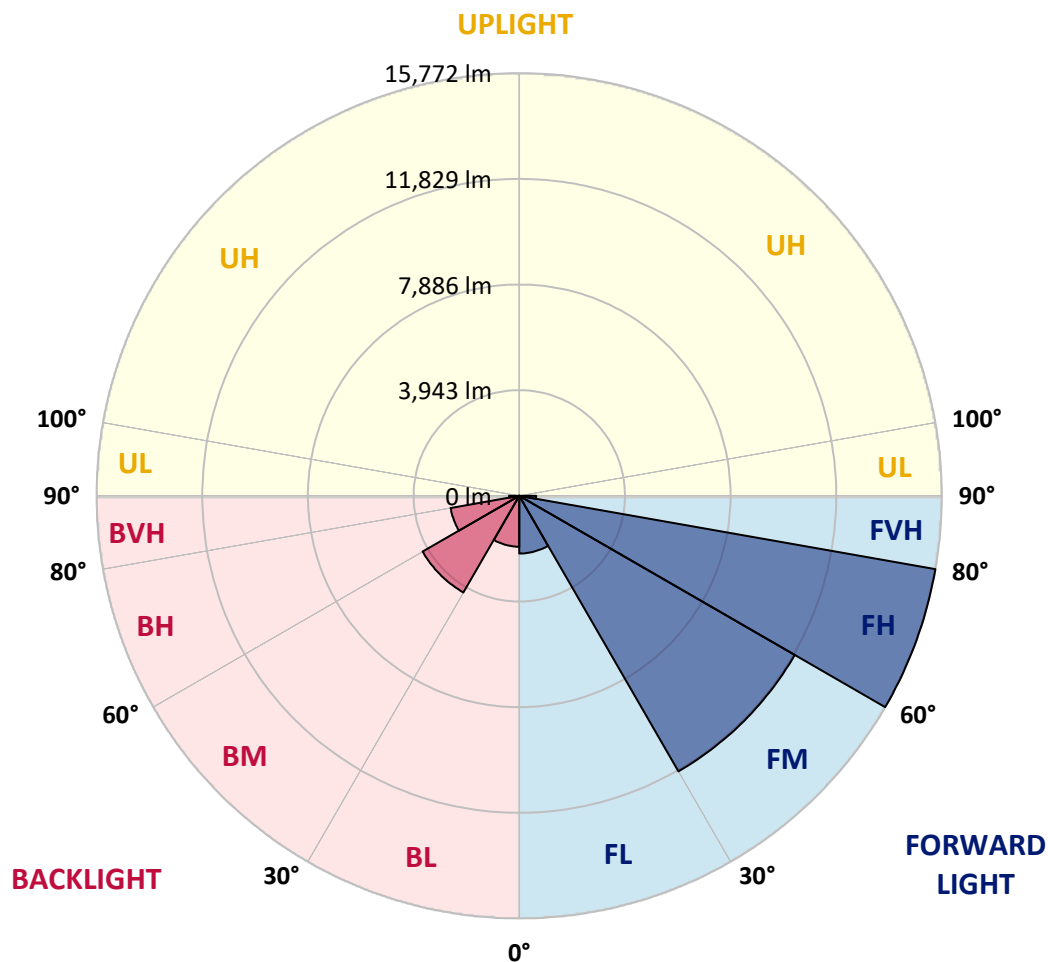
CATALOG NUMBER: GLEON-SA7C-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2154.2	5.5			
FM	(30°-60°)	11873.5	30.1			
FH	(60°-80°)	15771.6	39.9			G5
FVH	(80°-90°)	631.2	1.6			G4/750
BL	(0°-30°)	1899.8	4.8	B3/2500		
BM	(30°-60°)	4165.3	10.6	B3/5000		
BH	(60°-80°)	2601.4	6.6	B4/5000		G4/5000
BVH	(80°-90°)	382.1	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P319211

CATALOG NUMBER: GLEON-SA7C-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1
2.5°	4223.4	4226.1	4231.6	4218.0	4180.2	4169.4	4165.4	4126.2	4100.5	4062.7	4030.2
5°	4561.2	4563.9	4555.8	4518.0	4434.2	4372.1	4366.7	4277.5	4196.4	4110.0	4045.1
7.5°	4913.8	4917.9	4892.2	4820.6	4703.1	4595.0	4588.2	4466.6	4343.7	4212.6	4115.4
10°	5225.9	5209.7	5167.8	5067.9	4928.7	4796.3	4790.9	4663.9	4522.0	4364.0	4234.3
12.5°	5434.0	5420.5	5366.5	5244.9	5092.2	4970.6	4959.8	4842.2	4704.4	4531.5	4376.1
15°	5548.8	5558.3	5485.3	5347.5	5198.9	5096.2	5086.8	5003.0	4880.1	4705.8	4527.4
17.5°	5563.7	5571.8	5501.6	5365.1	5243.5	5173.2	5169.2	5113.8	5024.6	4857.1	4670.7
20°	5477.2	5482.6	5424.5	5312.4	5232.7	5211.1	5209.7	5185.4	5119.2	4970.6	4789.5
22.5°	5351.6	5355.6	5313.8	5232.7	5205.7	5239.5	5248.9	5239.5	5192.2	5053.0	4882.8
25°	5320.5	5317.8	5274.6	5192.2	5215.1	5286.7	5298.9	5303.0	5270.5	5148.9	5001.7
27.5°	5470.5	5461.0	5378.6	5246.2	5261.1	5347.5	5363.8	5402.9	5382.7	5275.9	5136.8
30°	5904.2	5888.0	5719.1	5451.6	5378.6	5423.2	5443.5	5505.6	5509.7	5420.5	5316.5
32.5°	6636.5	6616.2	6313.6	5835.3	5577.2	5500.2	5519.1	5612.3	5662.3	5593.4	5481.3
35°	7561.9	7539.0	7141.8	6487.8	5909.6	5647.5	5661.0	5735.3	5835.3	5738.0	5589.4
37.5°	8526.6	8471.2	8088.9	7255.2	6437.9	5962.3	5962.3	5971.7	6019.0	5816.4	5716.4
40°	9485.9	9430.5	9084.6	8157.8	7121.5	6458.1	6427.0	6217.6	6179.8	6005.5	5971.7
42.5°	10377.6	10361.4	10157.3	9177.8	7924.0	6945.9	6902.6	6547.3	6555.4	6447.3	6448.7
45°	11326.0	11326.0	11159.8	10207.3	8859.0	7729.5	7686.2	7163.4	7244.4	7194.5	7314.7
47.5°	12100.2	12124.5	12101.5	11280.1	9946.6	8725.2	8646.9	8017.3	8244.2	8415.8	8765.7
50°	12890.6	12928.4	12932.4	12456.9	11261.2	9908.8	9819.6	9150.8	9657.5	10149.2	10836.9
52.5°	14037.6	14122.7	13783.6	13631.0	12871.7	11313.9	11226.0	10608.6	11454.4	12144.8	13329.7
55°	15100.9	15026.6	14784.8	14879.3	14595.6	12913.5	12847.3	12305.6	13456.7	14353.8	15892.6
57.5°	15676.5	15671.1	15914.3	16319.6	16454.7	14886.1	14830.7	14303.8	15714.3	16388.5	18298.9
60°	16352.0	16361.5	16964.0	17884.1	18440.8	17342.3	17318.0	16918.1	17907.1	18288.1	20186.3
62.5°	16446.6	16616.8	17654.4	19237.9	20299.8	20212.0	20266.1	19273.0	19868.8	19804.0	21595.5
65°	15359.0	15583.2	17461.2	19647.3	22148.1	23350.6	23400.5	21641.4	21415.8	21099.7	22099.5
67.5°	13129.7	13462.1	15502.2	18756.9	22757.4	25670.3	25740.6	23477.6	22699.3	21538.8	20886.2
70°	9554.8	9923.6	11977.2	16019.6	21671.2	26412.1	26491.8	24289.5	22748.0	20289.0	17830.1
72.5°	5771.8	6060.9	7753.8	11793.5	18290.8	25061.0	25202.9	23260.0	20768.7	17185.6	13166.2
75°	2534.6	2723.8	3749.2	6795.9	13094.6	20734.9	20911.9	19909.4	16874.9	12489.3	7782.2
77.5°	1079.5	1133.5	1537.5	2952.1	7402.5	14168.7	14411.9	14547.0	11449.0	6795.9	3288.5
80°	672.8	694.5	870.1	1336.2	3464.1	7957.8	8219.9	8559.0	5685.3	2498.1	1148.4
82.5°	409.4	433.7	578.3	807.9	1803.7	3607.4	3733.0	3972.1	2206.3	1079.5	594.5
85°	245.9	263.5	354.0	510.7	1026.8	1418.6	1417.3	1567.2	1039.0	694.5	313.4
87.5°	117.5	131.1	189.1	264.8	517.5	532.3	498.5	564.7	631.0	455.3	158.1
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: P319211

CATALOG NUMBER: GLEON-SA7C-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1	4022.1
2.5°	4019.4	4014.0	3996.5	3983.0	3980.3	3972.1	3965.4	3969.4	3974.8	3976.2	3976.2
5°	4018.1	4003.2	3980.3	3970.8	3983.0	3999.2	4019.4	4046.5	4062.7	4074.8	4082.9
7.5°	4082.9	4054.6	4028.9	4023.5	4047.8	4091.0	4137.0	4193.7	4232.9	4259.9	4265.3
10°	4191.0	4155.9	4130.2	4135.6	4178.9	4241.0	4305.9	4378.8	4438.3	4474.7	4477.4
12.5°	4315.3	4281.5	4257.2	4280.2	4351.8	4427.5	4495.0	4558.5	4612.6	4649.0	4649.0
15°	4458.5	4434.2	4405.8	4458.5	4555.8	4623.4	4651.7	4682.8	4712.5	4739.6	4734.2
17.5°	4596.3	4573.4	4558.5	4620.7	4722.0	4753.1	4734.2	4711.2	4711.2	4726.0	4728.7
20°	4715.2	4695.0	4704.4	4765.2	4817.9	4785.5	4715.2	4642.3	4612.6	4620.7	4628.8
22.5°	4819.3	4809.8	4838.2	4866.6	4828.7	4715.2	4585.5	4486.9	4450.4	4447.7	4450.4
25°	4940.9	4939.5	4974.6	4923.3	4755.8	4546.4	4372.1	4276.1	4255.9	4272.1	4299.1
27.5°	5092.2	5107.0	5124.6	4936.8	4607.2	4291.0	4114.0	4047.8	4068.1	4107.3	4132.9
30°	5285.4	5325.9	5288.1	4903.0	4393.7	3999.2	3830.3	3811.4	3866.8	3922.2	3949.2
32.5°	5473.2	5536.7	5444.8	4815.2	4118.1	3689.8	3558.7	3553.3	3620.9	3674.9	3712.7
35°	5624.5	5750.2	5562.4	4640.9	3799.2	3404.7	3308.8	3272.3	3296.6	3360.1	3403.3
37.5°	5821.8	6031.2	5643.4	4374.8	3453.3	3169.6	3057.5	2973.7	2952.1	2977.8	2999.4
40°	6182.5	6459.5	5681.3	4003.2	3115.6	2934.5	2821.0	2698.1	2613.0	2550.8	2552.2
42.5°	6771.6	7017.5	5656.9	3552.0	2803.5	2704.8	2576.5	2434.6	2296.8	2156.3	2145.5
45°	7728.1	7847.0	5584.0	3073.7	2529.2	2464.4	2344.1	2202.2	2018.5	1859.1	1844.2
47.5°	9258.9	8995.4	5470.5	2656.2	2287.4	2260.3	2149.6	1986.1	1791.5	1663.2	1652.4
50°	11346.3	10653.2	5415.1	2323.8	2073.9	2082.0	1991.5	1818.5	1634.8	1540.2	1529.4
52.5°	13843.1	12583.9	5521.8	2067.1	1902.3	1930.7	1863.1	1701.0	1547.0	1472.7	1461.9
55°	16433.1	14583.5	5636.7	1880.7	1740.2	1795.6	1772.6	1638.8	1499.7	1430.8	1421.3
57.5°	18650.2	16076.4	5407.0	1729.4	1595.6	1682.1	1702.3	1599.7	1475.4	1413.2	1402.4
60°	20045.8	16677.6	4804.4	1587.5	1480.8	1591.6	1661.8	1588.9	1484.8	1479.4	1471.3
62.5°	20707.9	16624.9	3900.5	1475.4	1409.2	1552.4	1691.5	1649.7	1592.9	1641.6	1645.6
65°	20410.6	15830.5	2904.8	1401.1	1357.8	1567.2	1780.7	1764.5	1624.0	1672.6	1679.4
67.5°	18454.3	13934.9	2150.9	1336.2	1301.1	1609.1	1942.8	1802.3	1563.2	1598.3	1576.7
70°	14915.8	11047.7	1659.1	1263.3	1243.0	1603.7	2015.8	1779.4	1497.0	1505.1	1447.0
72.5°	10285.7	7533.6	1349.7	1195.7	1159.2	1461.9	1964.5	1722.6	1441.6	1379.4	1302.4
75°	5593.4	4043.8	1147.1	1125.4	1012.0	1283.5	1869.9	1682.1	1391.6	1309.2	1266.0
77.5°	2200.9	1678.0	995.7	1029.5	885.0	1133.5	1764.5	1605.1	1322.7	1214.6	1193.0
80°	898.5	856.6	825.5	890.4	760.7	991.7	1637.5	1514.6	1240.3	1126.8	1083.6
82.5°	509.4	532.3	641.8	702.6	617.4	913.3	1576.7	1441.6	1141.7	1009.2	957.9
85°	260.8	312.1	447.2	503.9	454.0	776.9	1452.4	1261.9	916.0	772.8	776.9
87.5°	125.6	174.3	282.4	316.2	294.5	562.0	1084.9	914.7	713.4	564.7	547.2
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

$R_f = 81.5$
 $R_g = 99.2$
 $CIE\ R_a = 81.0$
 $R_9 = 7.1$



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)